From: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
To: (b)(6) NAVFAC MIDLANT, BD; (b)(6) NAVFAC MIDLANT, Staff; (b)(6) (b) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
Subject: Correspondence Regarding Group III (Email 8), Freedom of Information Act (FOIA) Request DON-NAVY-2017-003161 - Camp Lejeune - P1383 & P1384 Base Entry Point / CLEO Building Projects Contract No. K1310-002-S / Project Number K1310 SLO Case No. 16-970
Date: Friday, May 12, 2017 13:40:08
Attachments:
Non-DoD Source RE Third Group III Subcontractor Complaint.msg
RE Third Group III Subcontractor Complaint.msg
FW TRANSMITTAL 1222 SPEC 33 82 00 TELECOMMUNICATIONS OUTSIDE PLANT SD-06 TEST REPORTS CLEO ACCEPTANCE TESTS 24SM FOC AND 50PR COPPER.msg
Non-DoD Source FW RFI for Gatehouse door 122A.msg
Non-DoD Source FW TRANSMITTAL 1222 SPEC 33 82 00 TELECOMMUNICATIONS OUTSIDE PLANT SD-06 TEST REPORTS CLEO ACCEPTANCE TESTS 24SM FOC AND 50PR COPPER.msg
Non-DoD Source RE Third Group III Subcontractor Complaint.msg
Non-DoD Source RE Third Group III Subcontractor Complaint.msg
Third Group III Subcontractor Complaint.msg
Non-DoD Source TRANSMITTAL 1224 SPEC 23 09 23.13 22 BACnet DIRECT DIGITAL CONTROL SYSTEMS FOR HVAC SD-05 PVT PLAN - CLEO.msg
RE MISSING CRASH BARRIER ARM.msg
RE CI52 ACCEPTANCE TESTING SCHEDULE (P1383P1384).msg
Non-DoD Source RE SEEKING OICC SIGNATURE ON T-925 REV 2.msg
Non-DoD Source RE CI52 ACCEPTANCE TESTING SCHEDULE (P1383P1384).msg
RE CI52 ACCEPTANCE TESTING SCHEDULE (P1383P1384).msg
Non-DoD Source RE CI52 ACCEPTANCE TESTING SCHEDULE (P1383P1384).msg
RE CI52 ACCEPTANCE TESTING SCHEDULE (P1383P1384).msg
RE SEEKING OICC SIGNATURE ON T-925 REV 2.msg
Non-DoD Source RE SEEKING OICC SIGNATURE ON T-925 REV 2.msg
Non-DoD Source SEEKING OICC SIGNATURE ON T-925 REV 2.msg
Non-DoD Source CI52 ACCEPTANCE TESTING SCHEDULE .msg
Non-DoD Source FW MISSING CRASH BARRIER ARM.msg
RE Davs Bacon Investigation - Lee Mechanical Incorporated.msg
Non-DoD Source FW Davs Bacon Investigation - Lee Mechanical Incorporated.msg
Non-DoD Source RE WILSON GATE ELECTRICAL - AVB HEAT TRACE.msg
Non-DoD Source RE WILSON GATE ELECTRICAL - AVB HEAT TRACE.msg
Non-DoD Source WILSON GATE ELECTRICAL - AVB HEAT TRACE.msg

FYI

(b)(6)
Contract Specialist
ROICC Camp Lejeune
(b)(6)
DSN (b)
(b)(6) fax
(b)(6)

From: (b)(6)
To: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
Subject: [Non-DoD Source] RE: Third Group III Subcontractor Complaint
Date: Monday, February 22, 2016 16:23:36

I promised (b)(6) I would send him G3's bond info. I will do this. Thanks. R/(b)(6)

(b)(6) | Deputy Project Manager & Small Business Liaison | |
311 Parachute Tower Road | Camp Lejeune, NC 28542 |
Phone: w(b)(6) | c(b)(6) | Email: (b)(6)
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-----Original Message-----
From: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune [mailto(b)(6)]
Sent: Monday, February 22, 2016 3:25 PM
To: (b)(6)
Subject: RE: Third Group III Subcontractor Complaint

(b)(6)

Does Group III have a bond with you guys? I got another call from(b)(6), but I told him that I don't have copies of subcontractor bonds since we don't require them. I feel bad for the guy, but I don't think there's anything more I can do for him? If you have a copy of Group III's bond, can you please send it over to him?

Thanks!

R/
(b)(6)

(b)(6)
Contract Specialist
ROICC Camp Lejeune
(b)(6)
DSN (b)
(b)(6) fax
(b)(6)

-----Original Message-----
From: (b)(6) [mailto(b)(6)]
Sent: Thursday, February 18, 2016 9:26 AM
To: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
Subject: [Non-DoD Source] RE: Third Group III Subcontractor Complaint

Good morning (b)(6) I recently found out about this and have notified G3. The REA is not part of this. Since blast windows are not in G3's contract with us we told them they could invoice us immediately and DUSA would

pay this while we push our REA to you. I will continue to engage G3 to pay(b)(6) since we paid G3. Thank you. R/(b)

Good morning S(b)(6) . Two days ago I received an unpleasant phone call from (b)(6) , Owner, Ernest Glass, alleging he is having money on his contract held back by you. I intended to bring this up to (b) when we next spoke. I'll see (b) today. Meanwhile (b)(6) contacted NAVFAC's contracting officer with a complaint. You owe an answer I can provide NAVFAC. You have been paid 100% of the window frames and glazing by Dragados. I am not aware why you are withholding $75K from Ernest.

The cost proposal you submitted to me for the blast windows (above and beyond your contract) was responded to by me stating you can invoice this amount immediately since we have to argue our case for reimbursement with NAVFAC and your contract didn't include the work. I am still waiting for you to invoice me $43,691 ($35,056.00 to Ernest Glass).

25	CLEO	Aluminum & Glazing - subcontract	$128,000	$128,000	$128,000	$128,000	$-	100.00%
58	VC	Subcontract - aluminum & glazing	$123,000	$123,000	$123,000	$123,000	$-	100.00%

Thank you for your attention to this matter. R/(b)

(b)(6) | Deputy Project Manager & Small Business Liaison | |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w(b)(6) c(b)(6) | Email:(b)(6)

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-----Original Message-----
From: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune [mailto (b)(6)
Sent: Thursday, February 18, 2016 7:56 AM
To (b)(6)
Subject: Third Group III Subcontractor Complaint

(b) -

I got a complaint from Ernest Glass Co., Inc. regarding non-payment from Group III. When I realized this was for

windows, I looked over the REA you submitted yesterday, and I saw that name as the sub. However, that appears to be for about $35K for them. They say that their subcontract with Group III was for about $264,000, and that they have not been paid about $75,000. Since this was a REA and the work is already done, have you paid Group III? Or are we waiting on the REA? Also, what about the extra $40,000? Can you look into it? They have the ear of a construction manager here... They also asked for your bond info, which I'm not sure they are even eligible to go after under the Miller Act, but I will have to give to them.

Thanks!

R/

[redacted]

[redacted]

Contract Specialist

ROICC Camp Lejeune

[redacted]

DSN [redacted]

[redacted] fax

[redacted] <mailto[redacted]>

From: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune
To: [redacted]
Subject: RE: Third Group III Subcontractor Complaint
Date: Monday, February 22, 2016 15:24:00

[redacted]

Does Group III have a bond with you guys? I got another call from [redacted] but I told him that I don't have copies of subcontractor bonds since we don't require them. I feel bad for the guy, but I don't think there's anything more I can do for him? If you have a copy of Group III's bond, can you please send it over to him?

Thanks!

R/
[redacted]

[redacted]
Contract Specialist
ROICC Camp Lejeune
[redacted]
DSN [redacted]
[redacted] fax
[redacted]

-----Original Message-----
From [redacted] [mailto:[redacted]]
Sent: Thursday, February 18, 2016 9:26 AM
To: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune
Subject: [Non-DoD Source] RE: Third Group III Subcontractor Complaint

Good morning [redacted] I recently found out about this and have notified G3. The REA is not part of this. Since blast windows are not in G3's contract with us we told them they could invoice us immediately and DUSA would pay this while we push our REA to you. I will continue to engage G3 to pay Ernest since we paid G3. Thank you.
R/[redacted]

Good morning [redacted]. Two days ago I received an unpleasant phone call from [redacted], Owner, Ernest Glass, alleging he is having money on his contract held back by you. I intended to bring this up to [redacted] when we next spoke. I'll see Erik today. Meanwhile [redacted] contacted NAVFAC's contracting officer with a complaint. You owe an answer I can provide NAVFAC. You have been paid 100% of the window frames and glazing by Dragados. I am not aware why you are withholding $75K from Ernest.

The cost proposal you submitted to me for the blast windows (above and beyond your contract) was responded to by me stating you can invoice this amount immediately since we have to argue our case for reimbursement with NAVFAC and your contract didn't include the work. I am still waiting for you to invoice me $43,691 ($35,056.00 to Ernest Glass).

25	CLEO	Aluminum & Glazing - subcontract	$128,000	$128,000	$128,000

$128,000 $- 100.00%

58 VC Subcontract - aluminum & glazing $123,000 $123,000 $123,000 $123,000 $- 100.00%

Thank you for your attention to this matter. R/ David

David Kramer | Deputy Project Manager & Small Business Liaison | |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w 919- 245-5146 x5| c 910-808-5747 | Email: DKramer@Dragados-USA.com

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-----Original Message-----
From [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune [mailto:[redacted]
Sent: Thursday, February 18, 2016 7:56 AM
To [redacted]
Subject: Third Group III Subcontractor Complaint

[redacted] -

I got a complaint from Ernest Glass Co., Inc. regarding non-payment from Group III. When I realized this was for windows, I looked over the REA you submitted yesterday, and I saw that name as the sub. However, that appears to be for about $35K for them. They say that their subcontract with Group III was for about $264,000, and that they have not been paid about $75,000. Since this was a REA and the work is already done, have you paid Group III? Or are we waiting on the REA? Also, what about the extra $40,000? Can you look into it? They have the ear of a construction manager here... They also asked for your bond info, which I'm not sure they are even eligible to go after under the Miller Act, but I will have to give to them.

Thanks!

R/

[redacted]

[redacted]

Contract Specialist

ROICC Camp Lejeune

[redacted]

DSN [redacted]

[redacted] fax

[redacted] <mailto[redacted]>

From: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune
To: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune
Subject: FW: TRANSMITTAL 1222, SPEC 33 82 00, TELECOMMUNICATIONS OUTSIDE PLANT, SD-06, TEST REPORTS, CLEO ACCEPTANCE TESTS, 24SM FOC AND 50PR COPPER
Date: Monday, February 22, 2016 9:51:00
Attachments: image001.png
TRANSMITTAL 1222, SPEC 33 82 00, TELECOMMUNICATIONS OUTSIDE PLANT, SD-06, TEST REPORTS, CLEO ACCEPTANCE TESTS, 24SM FOC AND 50PR COPPER.pdf

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FYI

[redacted]
Contract Specialist
ROICC Camp Lejeune
[redacted]
DSN [redacted] fax [redacted]

-----Original Message-----
From: [redacted] [mailto[redacted]]
Sent: Friday, February 19, 2016 1:53 PM
To: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] MCIEAST, Telecom Support Div.
Cc: [redacted]
Subject: [Non-DoD Source] FW: TRANSMITTAL 1222, SPEC 33 82 00, TELECOMMUNICATIONS OUTSIDE PLANT, SD-06, TEST REPORTS, CLEO ACCEPTANCE TESTS, 24SM FOC AND 50PR COPPER

Good afternoon. Have you had a chance to review this acceptance test for the CLEO copper and fiber outside plant? Thanks. R/[redacted]

[redacted] | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w[redacted] | c [redacted] Email: [redacted]
<mailto[redacted]>

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From: [redacted]
Sent: Wednesday, February 10, 2016 2:15 PM
To: [redacted] (NAVFAC inbound OICC); [redacted]

[redacted]

Cc [redacted] (Dragados Senior Vice President); [redacted] (Dragados QC Manager); [redacted] (Dragados QC Specialist); [redacted] PM, Group III Management); [redacted] (Group III Mgt Superintendent); [redacted] (Yates Electric)

Subject: TRANSMITTAL 1222, SPEC 33 82 00, TELECOMMUNICATIONS OUTSIDE PLANT, SD-06, TEST REPORTS, CLEO ACCEPTANCE TESTS, 24SM FOC AND 50PR COPPER

Good afternoon. Attached is transmittal 1222 which are the submittals for acceptance testing of the 24SM FOC and 50PR copper telecommunication cables (Outside Plant). This is submitted IAW SPEC 33 82 00, Telecommunications Outside Plant, paragraphs 3.5.2.1. and 3.5.2.2. Hard copies of this are being delivered to your offices with parallel routing to the designer and Base Telephone [redacted]).

Good afternoon [redacted]. These cables are complete and continuous through to the telecommunications backboard inside of the CLEO Admin building. They are pulled into but not spliced into the cabinet in front of the lift station in front of the dog kennels.

Thanks. R[redacted]

[redacted] | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w [redacted] | c [redacted] | Email: [redacted]
<mailto [redacted]>

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CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-43553 (Rev. 11-80)

CONTRACT NO.	TRANSMITTAL NO.	DATE
N40085-12-C-7714	02102016 1222	2/10/2016

FROM CONTRACTOR
Dragados USA - [redacted]

TO
OICC, [redacted] JSN, CEC

PROJECT TITLE AND LOCATION
P1383 & P1384 - New Base Entry Point and Road at MCB Camp Lejeune

CONTRACTOR USE ONLY

*List only one specification division per form

List only one of the following categories on each transmittal form.
and indicate which is being submitted

☐ Contractor Approved ■ OICC Approval ☐ Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

**** ACTION CODES**
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged
C-Comments
R-Resubmit

ITEM NO	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO.	ITEM IDENTIFICATION (Type, size, model no., Mfg name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES ***	REVIEWER'S INITIALS CODE AND DATE
1	33 82 00	Telecommunications Outside Plant	5,1		
		SD-06 - Test Reports			
	para 3.5.2.1.	Copper Conductor Cable			
		ACCEPTANCE TEST: CLEO 50pr copper			
	para 3.5.2.2.	Fiber Optic Cable			
		ACCEPTANCE TEST: CLEO 24SM/FOC			

CONTRACTOR'S COMMENTS

On 18Jan2016 Peerless Communication personnel conducted a Contractor test on the CLEO OSP copper and SM FOC. Results were passing and are attached to this report. Thanks. R/

CONTRACT [redacted]

DATE RECEIVED BY REVIEWER	FROM (Reviewer)	

☐ **Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.**

☐ **Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.**

REVIEWER'S COMMENTS

COPIES TO:	DATE	SIGNATURE
ROICC (2) LANTDIV (1) A-E (1)		

OSP Copper Certification Base Telephone

Project / Building # Cleo Project

CABLE # 50 PR TESTED BY CPC

PAIR	TIP GND	RING GND	SHORT	TIP OPEN	RING OPEN	SPLIT	TRANSPOSED	REVERSED	PASS OR FAIL
1									Pass
2									Pass
3									Pass
4									Pass
5									Pass
6									Pass
7									Pass
8									Pass
9									Pass
10									Pass
11									Pass
12									Pass
13									Pass
14									Pass
15									Pass
16									Pass
17									Pass
18									Pass
19									Pass
20									Pass
21									Pass
22									Pass
23									Pass
24									Pass
25									Pass
26									Pass
27									Pass
28									Pass
29									Pass
30									Pass
31									Pass
32									Pass
33									Pass
34									Pass
35									Pass
36									Pass
37									Pass
38									Pass
39									Pass
40									Pass
41									Pass
42									Pass
43									Pass
44									Pass
45									Pass
46									Pass
47									Pass
48									Pass
49									Pass
50									Pass

Cable ID:CLEO Project 24 SMF		From BLDG:CLEO Administration BLDG				To BLDG:Pedestal						
Count:24 SMF	Distance in Feet: 3246ft	Patch Panel ID:ADMIN				Patch Panel ID:						
Date:01-18-2016		Cabinet Labeled	Yes	No		Cabinet Labeled	Yes	No	Max Splice Loss SM	0.300 x	0	= 0
OTDR Model: AFL M700		Cable Tagged	Yes	No		Cable Tagged	Yes	No	Max Conn. Loss SM	0.750 x	1	= 0.75
Crew Members [redacted]		Cable Grounded	Yes	No		Cable Grounded	Yes	No	Max Cable Loss Per 1K Ft SM	0.106 x	3.246	= 0.344076
Comments:Tested one way Base Tel will do Hot Splice at Pedestal or Manhole												1.094076

FROM BLDG		ADMIN	To Bldg	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Lose	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	Total Cable Loss From Bldg	Total Cable Loss to Bldg
Strand NO.	WaveLength	Conn. Loss	Conn. Loss	Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance			
1	1310 nm	0.15	.																	
	1550 nm	0.17	.																0.44	.
	Distance																			
2	1310 nm	0.29	.																	
	1550 nm	0.18	.																0.46	.
	Distance																			
3	1310 nm	0.23	.																	
	1550 nm	0.34	.																0.39	.
	Distance																			
4	1310 nm	0.32	.																	
	1550 nm	0.22	.																0.51	.
	Distance																			
5	1310 nm	0.25	.																	
	1550 nm	0.09	.																0.41	.
	Distance																			
6	1310 nm	0.35	.																	
	1550 nm	0.32	.																0.58	.
	Distance																			
7	1310 nm	0.21	.																	
	1550 nm	0.13	.																0.44	.
	Distance																			
8	1310 nm	0.25	.																	
	1550 nm	0.27	.																0.5	.
	Distance																			
9	1310 nm	0.06	.																	
	1550 nm	0.08	.																0.26	.
	Distance																			
10	1310 nm	0.31	.																	
	1550 nm	0.52	.																0.51	.
	Distance																			
11	1310 nm	0.45	.																	
	1550 nm	0.40	.																0.65	.
	Distance																			
12	1310 nm	0.38	.																	
	1550 nm	0.57	.																0.53	.
	Distance																			

Cable ID:CLEO Project 24 SMF		From BLDG:CLEO Administration BLDG				To BLDG:Pedestal						
Count:24 SMF	Distance in Feet: 3246FT	Patch Panel ID:ADMIN				Patch Panel ID:						
Date:01-18-2016		Cabinet Labeled	Yes	No		Cabinet Labeled	Yes	No	Max Splice Lose SM	0.300 x	0	= 0
OTDR Model: AFL M700		Cable Tagged	Yes	No		Cable Tagged	Yes	No	Max Conn. Loss SM	0.750 x	1	= 0.75
Crew Members: [redacted]		Cable Grounded	Yes	No		Cable Grounded	Yes	No	Max Cable Loss Per 1K Ft SM	0.106 x	3.246	= 0.344076
Comments:Tested one way Base Tel will do Hot Splice at Pedestal or Manhole												1.094076

FROM BLDG		ADMIN	To Bldg	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	Total Cable Loss From Bldg	Total Cable Loss to Bldg
Strand NO.	WaveLength	Conn. Loss	Conn. Loss	Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance			
13	1310 nm	-0.14	.																	
	1550 nm	-0.13	.																0.1	.
	Distance																			
14	1310 nm	0.56	.																	
	1550 nm	0.42	.																0.71	.
	Distance																			
15	1310 nm	0.28	.																	
	1550 nm	0.30	.																0.46	.
	Distance																			
16	1310 nm	0.41	.																	
	1550 nm	0.33	.																0.64	.
	Distance																			
17	1310 nm	0.22	.																	
	1550 nm	0.30	.																0.41	.
	Distance																			
18	1310 nm	0.53	.																	
	1550 nm	0.41	.																0.69	.
	Distance																			
19	1310 nm	0.64	.																	
	1550 nm	0.47	.																0.8	.
	Distance																			
20	1310 nm	0.27	.																	
	1550 nm	0.31	.																0.46	.
	Distance																			
21	1310 nm	0.59	.																	
	1550 nm	0.42	.																0.77	.
	Distance																			
22	1310 nm	0.35	.																	
	1550 nm	0.38	.																0.53	.
	Distance																			
23	1310 nm	0.65	.																	
	1550 nm	0.44	.																0.77	.
	Distance																			
24	1310 nm	0.14	.																	
	1550 nm	0.18	.																0.32	.
	Distance																			

Cable ID:CLEO Project 6 SMF

Count:6 SMF

Distance in Feet: 341

Date:01-18-2016

OTDR Model: AFL M700

Crew Members:[redacted]

From BLDG:CLEO Administration BLDG

Patch Panel ID:ADMIN 3

Cabinet Labeled	Yes	No	○
Cable Tagged	Yes	No	○
Cable Grounded	Yes	No	○

To BLDG:OPP 1

Patch Panel ID: panel 1

Cabinet Labeled	Yes	No
Cable Tagged	Yes	No
Cable Grounded	Yes	No

Max Splice Loss SM	0.300 x	1	=	0.3
Max Conn. Loss SM	0.750 x	2	=	1.5
Max Cable Loss Per 1K Ft SM	0.106 x	0.341	=	0.036146

1.836146

Comments:Tested Bi-Directional from ADMIN to OPP 1

FROM BLDG		ADMIN	OPP 1	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	Total Cable Loss From Bldg	Total Cable Loss to Bldg
Strand NO.	WaveLength	Conn. Loss	Conn. Loss	Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance			
1	1310 nm	0.31	0.12													0.34	0.17
	1550 nm	0.16	0.01														
	Distance																
2	1310 nm	0.14	0.25													0.12	0.27
	1550 nm	0.10	0.07														
	Distance																
3	1310 nm	0.19	0.30													0.17	0.22
	1550 nm	0.13	0.18														
	Distance																
4	1310 nm	0.26	0.04													0.26	0.08
	1550 nm	0.16	0.01														
	Distance																
5	1310 nm	0.06	0.54													0.01	0.5
	1550 nm	0.01	0.33														
	Distance																
6	1310 nm	0.01	0.23													0.04	0.26
	1550 nm	0.02	0.26														
	Distance																
	1310 nm	0.00	.														.
	1550 nm	0.00	.														
	Distance																
	1310 nm	0.00	.														.
	1550 nm	0.00	.														
	Distance																
	1310 nm	0.00	.														.
	1550 nm	0.00	.														
	Distance																
	1310 nm	0.00	.														.
	1550 nm	0.00	.														
	Distance																
	1310 nm	0.00	.														.
	1550 nm	0.00	.														
	Distance																
	1310 nm	0.00	.														.
	1550 nm	0.00	.														
	Distance																

Cable ID:CLEO Project 6 SMF

From BLDG:CLEO Administration BLDG

To BLDG:OPP2

Count:6 SMF

Distance in Feet: 144

Date:01-18-2016

OTDR Model: AFL M700

Crew Members: [redacted]

Patch Panel ID:ADMIN 4

Cabinet Labeled	Yes	No
Cable Tagged	Yes	No
Cable Grounded	Yes	No

Patch Panel ID: panel 1

Cabinet Labeled	Yes	No
Cable Tagged	Yes	No
Cable Grounded	Yes	No

Max Splice Loss SM	0.300 x	1	=	0.3
Max Conn. Loss SM	0.750 x	2	=	1.5
Max Cable Loss Per 1K Ft SM	0.106 x	0.144	=	0.015264

1.815264

Comments:Tested Bi-Directional from ADMIN to OPP2

FROM BLDG		ADMIN	OPP 2	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	Total Cable Loss From Bldg	Total Cable Loss to Bldg
Strand NO.	WaveLength	Conn. Loss	Conn. Loss	Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance			
1	1310 nm	0.06	0.13																0.32	0.44
	1550 nm	0.05	0.03																	
	Distance																			
2	1310 nm	0.11	0.34																0.66	0.49
	1550 nm	0.10	0.17																	
	Distance																			
3	1310 nm	0.42	0.11																0.52	0.25
	1550 nm	0.33	0.15																	
	Distance																			
4	1310 nm	0.17	0.14																0.57	0.37
	1550 nm	0.27	0.07																	
	Distance																			
5	1310 nm	0.01	0.04																0.46	0.45
	1550 nm	0.01	0.04																	
	Distance																			
6	1310 nm	0.33	0.11																0.38	0.26
	1550 nm	0.19	0.14																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			

VAULT SCHEDULE

COMMUNICATION HANDHOLE	1	2	3	4	5	6
SIZE OF HANDHOLE	4x4x4	4x4x4	4x4x4	4x4x4	4x4x4	4x4x4
50 PAIR PE39 COPPER	X	Y	Y	Y	Y	Y
24 STRAND SINGLE MODE ALTOS SHIELDED FOC	X	Y	Y	Y	Y	Y

X - ENTERING THE CONDUIT DUCT SYSTEM AT EXISTING HANDHOLE
Y - CONTINUING ON IN CONDUIT DUCT SYSTEM

CONDUIT SCHEDULE

DUCT *	A	B	C	D	E	F
CONDUIT DUCT TYPE *	CI	CI	CI	CI	CI	CI
BETWEEN HANDHOLES	1-2	2-3	3-4	4-5	5-6	6-B
50 PAIR PE39 COPPER	X	Y	Y	Y	Y	Y
24 STRAND SINGLE MODE FOC ALTOS SHIELDED	X	Y	Y	Y	Y	Y

* CONDUIT DUCT TYPES
CI-2X4" w/1 DUCT w/ 3X1" FABRIC INNERDUCTS

B=BUILDING

NAVFAC

SEAL 035853

MACTEC / RK&K JV

NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC
NAVAL STATION NORFOLK, VA
JACKSONVILLE, NC

FY12 MCON P1383 (BASE BID)
NEW BASE ENTRY POINT

MARINE CORPS BASE, CAMP LEJEUNE

COMMUNICATION SCHEDULES

AS NOTED
P-383
N39593649
WU601

2/7/2012
p:\proposal\old + (proposal)\design\camc worden\mchol_b_ut_sch_h_gwc_wu601.dgn
g.stone peters

NAD 83/NSRS 2007

15 0 15 30
SCALE IN FEET

RESTORE SIDEWALK AS NEEDED FOLLOWING WATER LINE INSTALLATION

PROPOSED 4" GRAVITY SANITARY SEWER "S1"

12" WATER LINE "W1" REMOVE AND REPLACE EXISTING 6" WATER LINE (SEE NOTE)

PROPOSED 3" FORCED SANITARY SEWER "S1" RECEIVING MANHOLE STA 33+11.0/S 51' LT

PROPOSED FIRE HYDRANT STA 33+04. 0/S 37' LT

PROPOSED 3" FORCED SANITARY SEWER "S1"

EXISTING U.G.COMM.LINE (APPROX LOC)

MAINTAIN 15' MINIMUM FROM EDGE OF ROADWAY

MATCHLINE STA. 29+00

MATCHLINE STA. 37+00

OLD SAWMILL ROAD

APRON LOCATION

SPLICE IN 50 PAIR COPPER LINE AND 24 STRAND SINGLE MODE FOC FOR GAME WARDEN FACILITY. PLACE IN EXISTING DUCT BANK

EXISTING OH.LINE

EXISTING COMMUNICATION LINE

12"x12"x6"x2" TEE WITH RESTRAINED JOINTS. START PROPOSED 2" DOMESTIC WATER LINE "W2" STA 32+98.0/S 32' LT INSTALL 12" and 6" GATE VALVES (SEE 2" WATER SERVICE CONNECTION DETAIL ON SHEET WU501)

BOUNDARY OF JOBSITE USE CONTROLS

NOTE:
6" WATER LINE TO BE TAKEN OUT OF SERVICE AND REMOVED FOR PLACEMENT OF 12" WATER LINE. CLOSE 6" VALVES AT HOLCOMB BLVD AND AT THE DOG KENNEL ENTRANCE ON OLD SAWMILL ROAD. DOG KennEL COMPLEX TO BE SERVICED THROUGH 12" WATER LINE ON NORTH SIDE OF COMPLEX DURING CONSTRUCTION.

NAVFAC

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035853

MACTEC / RK&K JV

NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC
NAVAL STATION NORFOLK, VA
JACKSONVILLE, NC

FY12 MCON P1383 (BASE BID)
NEW BASE ENTRY POINT

MARINE CORPS BASE, CAMP LEJEUNE

OLD SAWMILL ROAD UTILITY PLAN

SCALE: AS NOTED
PROJECT NO.: P-533
CONTR. CONTR NO.:
NAVFAC DRAWING NO.: 12593637
SHEET 37 OF 146

WU102

7/7/2012
P:\Proposal\utd r (proposal)\design\game warden\mcbcl_b_wl_psh_h_gwc_02.dgn
gustavo.pollaro

MATCHLINE STA. 37+00

MATCHLINE STA. 45+50

EXISTING 14' R.W. (APPROX LOC)

BOUNDARY OF NON-INDUSTRIAL LAND USE CONTROLS AND INTRUSIVE ACTIVITIES (SOIL)

MAINTAIN 10' MINIMUM SEPARATION FROM WATER LINE

MAINTAIN 15' MINIMUM FROM EDGE OF ROADWAY

PROPOSED 2" WATER LINE "W2"

PROPOSED 12" WATER LINE "W1"

PROPOSED FIRE HYDRANT STA.43+34.0/S 28' LT

NAD 83/NSRS 2007

SCALE IN FEET

OLD SAWMILL ROAD

PROP U/G TEL CONDUIT

℄ OLD SAWMILL ROAD

EXISTING OH.LINE

EXISTING COMMUNICATION LINE

PROPOSED COMMUNICATION LINE "C1" COMMUNICATION DUCT A SEE SHEET WU601 FOR SCHEDULE

BEGIN NEW COMMUNICATION LINE "C1" AS 2x4" CONCRETE DUCT BANK. CONTINUE 50 PAIR COPPER LINE AND 24 STRAND SINGLE MODE FOC FOR GAME WARDEN FACILITY

BOUNDARY OF AQUIFER USE CONTROLS

BOUNDARY OF INTRUSIVE ACTIVITIES (GROUNDWATER)

BOUNDARY OF NON-INDUSTRIAL LAND USE CONTROLS AND INTRUSIVE ACTIVITIES (SOIL)

NAVFAC

NORTH CAROLINA PROFESSIONAL SEAL 035853

MACTEC / RK&K JV

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC
NAVAL FACILITIES ENGINEERING COMMAND, MAYPORT, FL
NAVAL STATION NORFOLK, VA
JACKSONVILLE, NC
MARINE CORPS BASE, CAMP LEJEUNE

FY12 MCON P1383 (BASE BID)
NEW BASE ENTRY POINT

OLD SAWMILL ROAD UTILITY PLAN

SCALE: AS NOTED
PROJECT NO.: 91383
CONTR. NO.:
NAVFAC DRAWING NO.: 1259638
SHEET 38 OF 46

WU103

2/7/2013
P:\proposal\old r (proposal)\design\game warden\mcbcl_b_ul_pst_h_gwc_03.dgn
gatovalpalora

EXISTING U.G.COMM.LINE (APPROX LOC)

MAINTAIN 15' MINIMUM FROM EDGE OF ROADWAY

12"x12"X6" TEE STA 53+80, 0/S 33' LT

JACK AND BORE UNDER ROADWAY

12"x6" REDUCER STA 56+00, 0/S 39' RT

PROPOSED FIRE HYDRANT STA.56+00, 0/S 49' RT

PROPOSED 3" FORCED SANITARY SEWER "SF"

JACK AND BORE UNDER ROADWAY

PROPOSED COMMUNICATION LINE "CF" COMMUNICATION DUCT D SEE SHEET WU601 FOR SCHEDULE

MATCHLINE STA. 52+50

OLD SAWMILL ROAD

PROPOSED FIRE HYDRANT STA 53+80,0/S 50' RT

PROPOSED COMMUNICATION LINE "CF" COMMUNICATION DUCT C SEE SHEET WU601 FOR SCHEDULE

4'x4'x4' COMMUNICATION VAULT "4 STA.53+52, 0/S 22' RT

PROPOSED WATER METER STA.55+35 0/S 47' RT

RPZ BACKFLOW PREVENTER STA.55+42 0/S 50' RT

4'x4'x4' COMMUNICATION VAULT "5 STA.57+35, 0/S 22' RT

PACKAGED LIFT STATION STA 57+05, 0/S 56' LT

PROPOSED 1" SERVICE LINE

PROPOSED 4" GRAVITY SEWER

4" SEWER CLEANOUT

END PROPOSED SEWER LINE "SF" STA 56+64 0/S 179' RT

END PROPOSED WATER LINE "W2" STA 56+52 0/S 174' RT

PAVED WALKWAY

BOARDWALK

PROPOSED COMMUNICATION LINE "CF" COMMUNICATION DUCT E SEE SHEET WU601 FOR SCHEDULE

4'x4'x4' COMMUNICATION VAULT "6 STA.56+50, 0/S 275' RT

PROPOSED COMMUNICATION LINE "CF" COMMUNICATION DUCT F SEE SHEET WU601 FOR SCHEDULE

END PROPOSED COMMUNICATION LINE "CF" STA 56+04, 0/S 260' RT

BOUNDARY OF AQUIFER USE CONTROLS

15" RCP-IV

NAD 83 NAVFAC 2007

SCALE IN FEET

NAVFAC

SEAL 035853

RK&K

MACTEC / RK&K JV

NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC

MARINE CORPS BASE, CAMP LEJEUNE

JACKSONVILLE, NC

FY12 MCON P1383 (BASE BID)
NEW BASE ENTRY POINT

OLD SAWMILL ROAD UTILITY PLAN

AS NOTED

P1383

1359640

40 OF 146

WU105

8/17/2012
P:\Proposal\Design\Camp Warden\mcbcl_b_ul_gsh_h_awc_05.dgn
gsalinas

From: [redacted]
To: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune
Cc: [redacted] (PM, Group III Management) [redacted]
Subject: [Non-DoD Source] FW: RFI for Gatehouse door 122A
Date: Friday, February 19, 2016 15:04:25
Importance: High

Good afternoon [redacted] – Will you please read the below and advise on how you want us to proceed?
Thanks. R/ [redacted]

[redacted] – good job describing this in the most simple terms.

From [redacted] [mailto[redacted]]
Door 122A is not noted as being a bullet resistant door. All of the other doors are bullet resistant, at the gatehouse (please see the door schedule on sheet A-601). This seems curious to us b/c this door leads into the NMCI room – probably the most critical room in the building! With that stated, the frame the supplier sent is bullet resistant. It has already been installed. The door is not bullet resistant and has not been installed. We have 2 options here:

1) Install the non-bullet resistant door. This will require a modification to the frame to accommodate the hinges. No cost.

2) Order and install a bullet resistant door to match all of the other doors at the gatehouse. This will be a change order.

From: [redacted]
To: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] MCIEAST, Telecom Support Div.
Cc: [redacted]
Subject: [Non-DoD Source] FW: TRANSMITTAL 1222, SPEC 33 82 00, TELECOMMUNICATIONS OUTSIDE PLANT, SD-06, TEST REPORTS, CLEO ACCEPTANCE TESTS, 24SM FOC AND 50PR COPPER
Date: Friday, February 19, 2016 13:54:18
Attachments: image001.png
TRANSMITTAL 1222, SPEC 33 82 00, TELECOMMUNICATIONS OUTSIDE PLANT, SD-06, TEST REPORTS, CLEO ACCEPTANCE TESTS, 24SM FOC AND 50PR COPPER.pdf

---

Good afternoon. Have you had a chance to review this acceptance test for the CLEO copper and fiber outside plant? Thanks. R/ [redacted]

[redacted] | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w [redacted] | c [redacted] | Email: [redacted]
<mailto [redacted] >

Dragados USA, Inc. is An Equal Opportunity Employer

From: [redacted]
Sent: Wednesday, February 10, 2016 2:15 PM
To: [redacted] (NAVFAC inbound OICC); [redacted] (Base Telephone); Ray [redacted] (AMEC PM); [redacted]
Cc: [redacted] (Dragados USA); [redacted] (Dragados Senior Vice President); [redacted] (Dragados QC Manager); [redacted] (Dragados QC Specialist); [redacted] (PM, Group III Management); [redacted] (Group III Mgt Superintendent); [redacted] (Yates Electric)
Subject: TRANSMITTAL 1222, SPEC 33 82 00, TELECOMMUNICATIONS OUTSIDE PLANT, SD-06, TEST REPORTS, CLEO ACCEPTANCE TESTS, 24SM FOC AND 50PR COPPER

Good afternoon. Attached is transmittal 1222 which are the submittals for acceptance testing of the 24SM FOC and 50PR copper telecommunication cables (Outside Plant). This is submitted IAW SPEC 33 82 00, Telecommunications Outside Plant, paragraphs 3.5.2.1. and 3.5.2.2. Hard copies of this are being delivered to your offices with parallel routing to the designer and Base Telephone ([redacted]).

Good afternoon [redacted]. These cables are complete and continuous through to the telecommunications backboard inside of the CLEO Admin building. They are pulled into but not spliced into the cabinet in front of the lift station in front of the dog kennels.

Thanks. R/[redacted]

[redacted] Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w [redacted] | c [redacted] | Email: [redacted]
<mailto [redacted]>

Dragados USA, Inc. is An Equal Opportunity Employer

CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-43553 (Rev. 11-80)

CONTRACT NO.	TRANSMITTAL NO.	DATE
N40085-12-C-7714	02102016 1222	2/10/2016

FROM CONTRACTOR
Dragados USA - [redacted]

TO
OICC, [redacted] USN, CEC

PROJECT TITLE AND LOCATION
P1383 & P1384 - New Base Entry Point and Road at MCB Camp Lejeune

CONTRACTOR USE ONLY

*List only one specification division per form

List only one of the following categories on each transmittal form.
and indicate which is being submitted

☐ Contractor Approved ■ OICC Approval ☐ Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

**** ACTION CODES**
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged
C-Comments
R-Resubmit

ITEM NO	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO.	ITEM IDENTIFICATION (Type, size, model no., Mfg name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES ***	REVIEWER'S INITIALS CODE AND DATE
1	33 82 00	Telecommunications Outside Plant	5,1		
		SD-06 - Test Reports			
	para 3.5.2.1.	Copper Conductor Cable			
		ACCEPTANCE TEST: CLEO 50pr copper			
	para 3.5.2.2.	Fiber Optic Cable			
		ACCEPTANCE TEST: CLEO 24SM/FOC			

CONTRACTOR'S COMMENTS

On 18Jan2016 Peerless Communication personnel conducted a Contractor test on the CLEO OSP copper and SM FOC. Results were passing and are attached to this report. Thanks. R/

CONTRACT [redacted]

DATE RECEIVED BY REVIEWER	FROM (Reviewer)	

☐ **Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.**

☐ **Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.**

REVIEWER'S COMMENTS

COPIES TO:	DATE	SIGNATURE
ROICC (2) LANTDIV (1) A-E (1)		

OSP Copper Certification Base Telephone

Project / Building # Cleo Project

CABLE # 50 PR TESTED BY CPC

PAIR	TIP GND	RING GND	SHORT	TIP OPEN	RING OPEN	SPLIT	TRANSPOSED	REVERSED	PASS OR FAIL
1									Pass
2									Pass
3									Pass
4									Pass
5									Pass
6									Pass
7									Pass
8									Pass
9									Pass
10									Pass
11									Pass
12									Pass
13									Pass
14									Pass
15									Pass
16									Pass
17									Pass
18									Pass
19									Pass
20									Pass
21									Pass
22									Pass
23									Pass
24									Pass
25									Pass
26									Pass
27									Pass
28									Pass
29									Pass
30									Pass
31									Pass
32									Pass
33									Pass
34									Pass
35									Pass
36									Pass
37									Pass
38									Pass
39									Pass
40									Pass
41									Pass
42									Pass
43									Pass
44									Pass
45									Pass
46									Pass
47									Pass
48									Pass
49									Pass
50									Pass

Cable ID:CLEO Project 24 SMF		From BLDG:CLEO Administration BLDG				To BLDG:Pedestal						
Count:24 SMF	Distance in Feet: 3246ft	Patch Panel ID:ADMIN				Patch Panel ID:						
Date:01-18-2016		Cabinet Labeled	Yes	No		Cabinet Labeled	Yes	No	Max Splice Loss SM	0.300 x	0	= 0
OTDR Model: AFL M700		Cable Tagged	Yes	No		Cable Tagged	Yes	No	Max Conn. Loss SM	0.750 x	1	= 0.75
Crew Members [redacted]		Cable Grounded	Yes	No		Cable Grounded	Yes	No	Max Cable Loss Per 1K Ft SM	0.106 x	3.246	= 0.344076
Comments:Tested one way Base Tel will do Hot Splice at Pedestal or Manhole												1.094076

FROM BLDG		ADMIN	To Bldg	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	Total Cable Loss From Bldg	Total Cable Loss to Bldg
Strand NO.	WaveLength	Conn. Loss	Conn. Loss	Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance			
1	1310 nm	0.15	.																	
	1550 nm	0.17	.																0.44	.
	Distance																			
2	1310 nm	0.29	.																	
	1550 nm	0.18	.																0.46	.
	Distance																			
3	1310 nm	0.23	.																	
	1550 nm	0.34	.																0.39	.
	Distance																			
4	1310 nm	0.32	.																	
	1550 nm	0.22	.																0.51	.
	Distance																			
5	1310 nm	0.25	.																	
	1550 nm	0.09	.																0.41	.
	Distance																			
6	1310 nm	0.35	.																	
	1550 nm	0.32	.																0.58	.
	Distance																			
7	1310 nm	0.21	.																	
	1550 nm	0.13	.																0.44	.
	Distance																			
8	1310 nm	0.25	.																	
	1550 nm	0.27	.																0.5	.
	Distance																			
9	1310 nm	0.06	.																	
	1550 nm	0.08	.																0.26	.
	Distance																			
10	1310 nm	0.31	.																	
	1550 nm	0.52	.																0.51	.
	Distance																			
11	1310 nm	0.45	.																	
	1550 nm	0.40	.																0.65	.
	Distance																			
12	1310 nm	0.38	.																	
	1550 nm	0.57	.																0.53	.
	Distance																			

Cable ID:CLEO Project 24 SMF		From BLDG:CLEO Administration BLDG				To BLDG:Pedestal							
Count:24 SMF	Distance in Feet: 3246FT	Patch Panel ID:ADMIN				Patch Panel ID:							
Date:01-18-2016		Cabinet Labeled	Yes	No		Cabinet Labeled	Yes	No	Max Splice Lose SM	0.300 x	0	=	0
OTDR Model: AFL M700		Cable Tagged	Yes	No		Cable Tagged	Yes	No	Max Conn. Loss SM	0.750 x	1	=	0.75
Crew Members [redacted]		Cable Grounded	Yes	No		Cable Grounded	Yes	No	Max Cable Loss Per 1K Ft SM	0.106 x	3.246	=	0.344076
Comments:Tested one way Base Tel will do Hot Splice at Pedestal or Manhole													1.094076

FROM BLDG		ADMIN	To Bldg	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	Total Cable Loss From Bldg	Total Cable Loss to Bldg
Strand NO.	WaveLength	Conn. Loss	Conn. Loss	Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance			
13	1310 nm	-0.14	.																	
	1550 nm	-0.13	.																0.1	.
	Distance																			
14	1310 nm	0.56	.																	
	1550 nm	0.42	.																0.71	.
	Distance																			
15	1310 nm	0.28	.																	
	1550 nm	0.30	.																0.46	.
	Distance																			
16	1310 nm	0.41	.																	
	1550 nm	0.33	.																0.64	.
	Distance																			
17	1310 nm	0.22	.																	
	1550 nm	0.30	.																0.41	.
	Distance																			
18	1310 nm	0.53	.																	
	1550 nm	0.41	.																0.69	.
	Distance																			
19	1310 nm	0.64	.																	
	1550 nm	0.47	.																0.8	.
	Distance																			
20	1310 nm	0.27	.																	
	1550 nm	0.31	.																0.46	.
	Distance																			
21	1310 nm	0.59	.																	
	1550 nm	0.42	.																0.77	.
	Distance																			
22	1310 nm	0.35	.																	
	1550 nm	0.38	.																0.53	.
	Distance																			
23	1310 nm	0.65	.																	
	1550 nm	0.44	.																0.77	.
	Distance																			
24	1310 nm	0.14	.																	
	1550 nm	0.18	.																0.32	.
	Distance																			

Cable ID:CLEO Project 6 SMF	From BLDG:CLEO Administration BLDG	To BLDG:OPP 1
Count:6 SMF Distance in Feet: 341	Patch Panel ID:ADMIN 3	Patch Panel ID: panel 1

Date:01-18-2016

OTDR Model: AFL M700

Crew Members [redacted]

Cabinet Labeled	Yes	No	Cabinet Labeled	Yes	No	Max Splice Loss SM	0.300 x	1	=	0.3
Cable Tagged	Yes	No	Cable Tagged	Yes	No	Max Conn. Loss SM	0.750 x	2	=	1.5
Cable Grounded	Yes	No	Cable Grounded	Yes	No	Max Cable Loss Per 1K Ft SM	0.106 x	0.341	=	0.036146
						1.836146				

Comments:Tested Bi-Directional from ADMIN to OPP 1

FROM BLDG		ADMIN	OPP 1	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	Total Cable Loss From Bldg	Total Cable Loss to Bldg
Strand NO.	WaveLength	Conn. Loss	Conn. Loss	Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance			
1	1310 nm	0.31	0.12																0.34	0.17
	1550 nm	0.16	0.01																	
	Distance																			
2	1310 nm	0.14	0.25																0.12	0.27
	1550 nm	0.10	0.07																	
	Distance																			
3	1310 nm	0.19	0.30																0.17	0.22
	1550 nm	0.13	0.18																	
	Distance																			
4	1310 nm	0.26	0.04																0.26	0.08
	1550 nm	0.16	0.01																	
	Distance																			
5	1310 nm	0.06	0.54																0.01	0.5
	1550 nm	0.01	0.33																	
	Distance																			
6	1310 nm	0.01	0.23																0.04	0.26
	1550 nm	0.02	0.26																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			
	1310 nm	0.00	.																	.
	1550 nm	0.00	.																	
	Distance																			

Cable ID:CLEO Project 6 SMF		From BLDG:CLEO Administration BLDG				To BLDG:OPP2			
Count:6 SMF	Distance in Feet: 144	Patch Panel ID:ADMIN 4				Patch Panel ID: panel 1			
Date:01-18-2016		Cabinet Labeled	Yes	No	○	Cabinet Labeled	Yes	No	Max Splice Loss SM 0.300 x 1 = 0.3
OTDR Model: AFL M700		Cable Tagged	Yes	No	○	Cable Tagged	Yes	No	Max Conn. Loss SM 0.750 x 2 = 1.5
Crew Members:[redacted]		Cable Grounded	Yes	No	○	Cable Grounded	Yes	No	Max Cable Loss Per 1K Ft SM 0.106 x 0.144 = 0.015264

Comments:Tested Bi-Directional from ADMIN to OPP2

1.815264

FROM BLDG		ADMIN	OPP 2	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	From Splice Loss	To Splice Loss	Average Splice Loss	Total Cable Loss From Bldg	Total Cable Loss to Bldg
Strand NO.	WaveLength	Conn. Loss	Conn. Loss	Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance		Distance	Distance			
1	1310 nm	0.06	0.13																0.32	0.44
	1550 nm	0.05	0.03																	
	Distance																			
2	1310 nm	0.11	0.34																0.66	0.49
	1550 nm	0.10	0.17																	
	Distance																			
3	1310 nm	0.42	0.11																0.52	0.25
	1550 nm	0.33	0.15																	
	Distance																			
4	1310 nm	0.17	0.14																0.57	0.37
	1550 nm	0.27	0.07																	
	Distance																			
5	1310 nm	0.01	0.04																0.46	0.45
	1550 nm	0.01	0.04																	
	Distance																			
6	1310 nm	0.33	0.11																0.38	0.26
	1550 nm	0.19	0.14																	
	Distance																			
	1310 nm	0.00	.																	
	1550 nm	0.00	.																	.
	Distance																			
	1310 nm	0.00	.																	
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	1310 nm	0.00	.																	
	1550 nm	0.00	.																	.
	Distance																			
	1310 nm	0.00	.																	
	1550 nm	0.00	.																	.
	Distance																			

VAULT SCHEDULE

COMMUNICATION HANDHOLE	1	2	3	4	5	6
SIZE OF HANDHOLE	4x4x4	4x4x4	4x4x4	4x4x4	4x4x4	4x4x4
50 PAIR PE39 COPPER	X	Y	Y	Y	Y	Y
24 STRAND SINGLE MODE ALTOS SHIELDED FOC	X	Y	Y	Y	Y	Y

X - ENTERING THE CONDUIT DUCT SYSTEM AT EXISTING HANDHOLE

Y - CONTINUING ON IN CONDUIT DUCT SYSTEM

CONDUIT SCHEDULE

DUCT *	A	B	C	D	E	F
CONDUIT DUCT TYPE *	CI	CI	CI	CI	CI	CI
BETWEEN HANDHOLES	1-2	2-3	3-4	4-5	5-6	6-B
50 PAIR PE39 COPPER	X	Y	Y	Y	Y	Y
24 STRAND SINGLE MODE FOC ALTOS SHIELDED	X	Y	Y	Y	Y	Y

* CONDUIT DUCT TYPES

CI-2X4" W/1 DUCT W/ 3X1" FABRIC INNERDUCTS

B=BUILDING

NAVFAC

SEAL 035853

MACTEC / RK&K JV

NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC

FY12 MCON P1383 (BASE BID)
NEW BASE ENTRY POINT

MARINE CORPS BASE, CAMP LEJEUNE JACKSONVILLE, NC

COMMUNICATION SCHEDULES

SCALE: AS NOTED

PROJECT NO: P1383

NAVFAC DRAWING NO: 1359364

SHEET 49 OF 148

WU601

2/7/2012
p:\proposal\old + (proposal)\design\camp warden\mcbcl_b_wu_sch_h_gwc_wu601.dgn
g.stone patrick

NAD 83/NSRS 2007

15 0 15 30
SCALE IN FEET

RESTORE SIDEWALK AS NEEDED FOLLOWING WATER LINE INSTALLATION

PROPOSED 4" GRAVITY SANITARY SEWER "S1"

12" WATER LINE "W1" REMOVE AND REPLACE EXISTING 6" WATER LINE (SEE NOTE)

PROPOSED 3" FORCED SANITARY SEWER "S1" RECEIVING MANHOLE STA 33+11.0/S 51' LT

PROPOSED FIRE HYDRANT STA 33+04. 0/S 37' LT

PROPOSED 3" FORCED SANITARY SEWER "S1"

EXISTING U.G.COMM.LINE (APPROX LOC)

MAINTAIN 15' MINIMUM FROM EDGE OF ROADWAY

MATCHLINE STA. 29+00

MATCHLINE STA. 37+00

OLD SAWMILL ROAD

APRON LOCATION

APRON LOCATION

SPLICE IN 50 PAIR COPPER LINE AND 24 STRAND SINGLE MODE FOC FOR GAME WARDEN FACILITY. PLACE IN EXISTING DUCT BANK

EXISTING OH.LINE

EXISTING COMMUNICATION LINE

12"x12"x6"x2" TEE WITH RESTRAINED JOINTS. START PROPOSED 2" DOMESTIC WATER LINE "W2" STA 32+98.0/S 32' LT INSTALL 12" and 6" GATE VALVES (SEE 2" WATER SERVICE CONNECTION DETAIL ON SHEET WU501)

BOUNDARY OF JOBSITE USE CONTROLS

NOTE:
6" WATER LINE TO BE TAKEN OUT OF SERVICE AND REMOVED FOR PLACEMENT OF 12" WATER LINE. CLOSE 6" VALVES AT HOLCOMB BLVD AND AT THE DOG KENNEL ENTRANCE ON OLD SAWMILL ROAD. DOG KennEL COMPLEX TO BE SERVICED THROUGH 12" WATER LINE ON NORTH SIDE OF COMPLEX DURING CONSTRUCTION.

NAVFAC

SEAL 035853

MACTEC / RK&K JV

NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC
NAVAL STATION NORFOLK, VA
JACKSONVILLE, NC
MARINE CORPS BASE, CAMP LEJEUNE

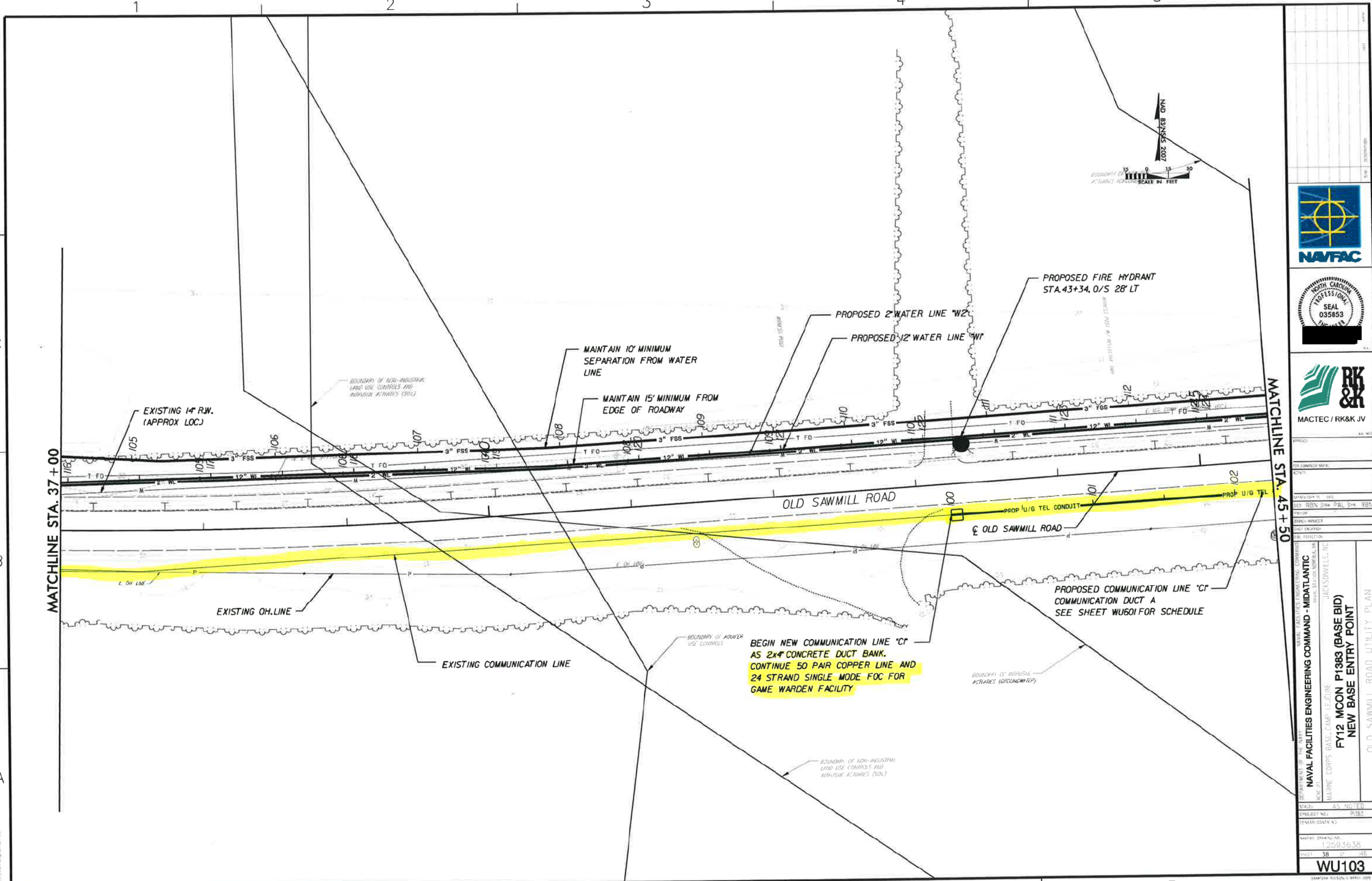
FY12 MCON P1383 (BASE BID)
NEW BASE ENTRY POINT

OLD SAWMILL ROAD UTILITY PLAN

SCALE: AS NOTED
PROJECT NO.: P-533
NAVFAC DRAWING NO.: 12593637
SHEET 37 OF 146

WU102

7/7/2012
P:\proposal\utility (proposal)\design\game warden\mctci_b_ul_psh_h_gwc_02.dgn
gustavo.pollera



MATCHLINE STA. 37+00
MATCHLINE STA. 45+50
NAD 83/NSRS 2007
SCALE IN FEET
EXISTING 14' R.W. (APPROX LOC)
MAINTAIN 10' MINIMUM SEPARATION FROM WATER LINE
MAINTAIN 15' MINIMUM FROM EDGE OF ROADWAY
PROPOSED 2" WATER LINE "W2"
PROPOSED 12" WATER LINE "W1"
PROPOSED FIRE HYDRANT STA. 43+34, O/S 28' LT
OLD SAWMILL ROAD
℄ OLD SAWMILL ROAD
PROP U/G TEL CONDUIT
PROP U/G TEL
EXISTING OH. LINE
EXISTING COMMUNICATION LINE
BEGIN NEW COMMUNICATION LINE "C1" AS 2x4" CONCRETE DUCT BANK. CONTINUE 50 PAIR COPPER LINE AND 24 STRAND SINGLE MODE FOC FOR GAME WARDEN FACILITY
PROPOSED COMMUNICATION LINE "C1" COMMUNICATION DUCT A SEE SHEET WU601 FOR SCHEDULE
NAVFAC
NORTH CAROLINA PROFESSIONAL SEAL 035853 ENGINEER
[redacted]
MACTEC / RK&K JV
NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC
MARINE CORPS BASE, CAMP LEJEUNE JACKSONVILLE, NC
FY12 MCON P1383 (BASE BID) NEW BASE ENTRY POINT
OLD SAWMILL ROAD UTILITY PLAN
AS NOTED
P1383
12583638
38 OF 146
WU103

EXISTING U.G.COMM.LINE (APPROX LOC)

MAINTAIN 15' MINIMUM FROM EDGE OF ROADWAY

12"x12"X6" TEE STA 53+80, 0/S 33' LT

JACK AND BORE UNDER ROADWAY

12"x6" REDUCER STA 56+00, 0/S 39' RT

PROPOSED FIRE HYDRANT STA.56+00, 0/S 49' RT

PROPOSED 3" FORCED SANITARY SEWER "SF"

JACK AND BORE UNDER ROADWAY

PROPOSED COMMUNICATION LINE "CF" COMMUNICATION DUCT D SEE SHEET WU601 FOR SCHEDULE

MATCHLINE STA. 52+50

OLD SAWMILL ROAD

PROPOSED FIRE HYDRANT STA 53+80,0/S 50' RT

PROPOSED COMMUNICATION LINE "CF" COMMUNICATION DUCT C SEE SHEET WU601 FOR SCHEDULE

PROPOSED WATER METER STA.55+35 0/S 47' RT

4'x4'x4' COMMUNICATION VAULT #4 STA.53+52, 0/S 22' RT

RPZ BACKFLOW PREVENTER STA.55+42 0/S 50' RT

4'x4'x4' COMMUNICATION VAULT #5 STA.57+35, 0/S 22' RT

PACKAGED LIFT STATION STA 57+05, 0/S 56' LT

PROPOSED 1" SERVICE LINE

PROPOSED 4" GRAVITY SEWER

4" SEWER CLEANOUT

END PROPOSED SEWER LINE "SF" STA 56+64 0/S 179' RT

END PROPOSED WATER LINE "W2" STA 56+52 0/S 174' RT

PAVED WALKWAY

BOARDWALK

PROPOSED COMMUNICATION LINE "CF" COMMUNICATION DUCT E SEE SHEET WU601 FOR SCHEDULE

4'x4'x4' COMMUNICATION VAULT #6 STA.56+50, 0/S 275' RT

PROPOSED COMMUNICATION LINE "CF" COMMUNICATION DUCT F SEE SHEET WU601 FOR SCHEDULE

END PROPOSED COMMUNICATION LINE "CF" STA 56+04, 0/S 260' RT

BOUNDARY OF AQUIFER USE CONTROLS

NAD 83 NSRS 2007

SCALE IN FEET

MACTEC / RK&K JV

NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC

MARINE CORPS BASE, CAMP LEJEUNE JACKSONVILLE, NC

FY12 MCON P1383 (BASE BID)
NEW BASE ENTRY POINT

OLD SAWMILL ROAD UTILITY PLAN

AS NOTED

P1383

1359640

WU105

8/17/2012
P:\Proposal\Design\Camp Warden\mcbcl_b_ul_gsh_h_qwc_05.dgn
gsullivan

From: [redacted]
To: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune
Subject: [Non-DoD Source] RE: Third Group III Subcontractor Complaint
Date: Thursday, February 18, 2016 9:26:13

Early thoughts on the merits of our case for the blast windows?

[redacted] | Deputy Project Manager & Small Business Liaison | |
311 Parachute Tower Road | Camp Lejeune, NC 28542 |
Phone: w [redacted] | c [redacted] | Email: [redacted]
Dragados USA, Inc. is An Equal Opportunity Employer

-----Original Message-----
From: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune [mailto[redacted]]
Sent: Thursday, February 18, 2016 7:56 AM
To: [redacted]
Subject: Third Group III Subcontractor Complaint

[redacted]-

I got a complaint from Ernest Glass Co., Inc. regarding non-payment from Group III. When I realized this was for windows, I looked over the REA you submitted yesterday, and I saw that name as the sub. However, that appears to be for about $35K for them. They say that their subcontract with Group III was for about $264,000, and that they have not been paid about $75,000. Since this was a REA and the work is already done, have you paid Group III? Or are we waiting on the REA? Also, what about the extra $40,000? Can you look into it? They have the ear of a construction manager here... They also asked for your bond info, which I'm not sure they are even eligible to go after under the Miller Act, but I will have to give to them.

Thanks!

R/
[redacted]

[redacted]
Contract Specialist
ROICC Camp Lejeune
[redacted]
DSN [redacted]
[redacted] fax
[redacted]

From: [redacted]
To: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune
Subject: [Non-DoD Source] RE: Third Group III Subcontractor Complaint
Date: Thursday, February 18, 2016 9:26:00

Good morning [redacted] I recently found out about this and have notified G3. The REA is not part of this. Since blast windows are not in G3's contract with us we told them they could invoice us immediately and DUSA would pay this while we push our REA to you. I will continue to engage G3 to pay Ernest since we paid G3. Thank you.
R/[redacted]

Good morning [redacted]. Two days ago I received an unpleasant phone call from [redacted], Owner, Ernest Glass, alleging he is having money on his contract held back by you. I intended to bring this up to [redacted] when we next spoke. I'll see [redacted] today. Meanwhile, [redacted] contacted NAVFAC's contracting officer with a complaint. You owe an answer I can provide NAVFAC. You have been paid 100% of the window frames and glazing by Dragados. I am not aware why you are withholding $75K from Ernest.

The cost proposal you submitted to me for the blast windows (above and beyond your contract) was responded to by me stating you can invoice this amount immediately since we have to argue our case for reimbursement with NAVFAC and your contract didn't include the work. I am still waiting for you to invoice me $43,691 ($35,056.00 to Ernest Glass).

25	CLEO	Aluminum & Glazing - subcontract	$128,000	$128,000	$128,000	$128,000	$-	100.00%
58	VC	Subcontract - aluminum & glazing	$123,000	$123,000	$123,000	$123,000	$-	100.00%

Thank you for your attention to this matter. R/[redacted]

[redacted] | Deputy Project Manager & Small Business Liaison | |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w [redacted] | c [redacted] | Email: [redacted]

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-----Original Message-----
From: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune [mailto[redacted]]
Sent: Thursday, February 18, 2016 7:56 AM
To [redacted]

Subject: Third Group III Subcontractor Complaint

[redacted]

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Thanks!

R/

[redacted]

Contract Specialist

ROICC Camp Lejeune

[redacted]

DSN [redacted]

[redacted]

[redacted] <mailto[redacted]

From: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune
To: [redacted]
Subject: Third Group III Subcontractor Complaint
Date: Thursday, February 18, 2016 7:56:00

[redacted]

I got a complaint from Ernest Glass Co., Inc. regarding non-payment from Group III. When I realized this was for windows, I looked over the REA you submitted yesterday, and I saw that name as the sub. However, that appears to be for about $35K for them. They say that their subcontract with Group III was for about $264,000, and that they have not been paid about $75,000. Since this was a REA and the work is already done, have you paid Group III? Or are we waiting on the REA? Also, what about the extra $40,000? Can you look into it? They have the ear of a construction manager here... They also asked for your bond info, which I'm not sure they are even eligible to go after under the Miller Act, but I will have to give to them.

Thanks!

R/
[redacted]

[redacted]
Contract Specialist
ROICC Camp Lejeune
([redacted]
DSN [redacted]
[redacted] fax
[redacted]

From: [redacted]
To: [redacted] NAVFAC MIDLANT, CI; [redacted] MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune [redacted]
Cc: [redacted] (Group III Mgt.) [redacted] (PM, Group III Management) [redacted]; [redacted] (Group III Mgt Superintendent) [redacted]
Subject: [Non-DoD Source] TRANSMITTAL 1224, SPEC 23 09 23.13 22, BACnet DIRECT DIGITAL CONTROL SYSTEMS FOR HVAC, SD-05, PVT PLAN - CLEO
Date: Friday, February 12, 2016 15:59:07
Attachments: TRANSMITTAL 1224, SPEC 23 09 23.13 22, BACnet DIRECT DIGITAL CONTROL SYSTEMS FOR HVAC, SD-05, PVT PLAN - CLEO.pdf

---

Good afternoon. Attached is transmittal 1224 which is our submittal for the PVT plan for the CLEO buildings, specification 23 09 23.13 22, BACnet DDC systems for HVAC, SD-05, design data. Hard copies are enroute to your office. Thanks. R[redacted]

[redacted] | Deputy Project Manager & Small Business Liaison | |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w [redacted] | c [redacted] | Email: [redacted]

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CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-43553 (Rev. 11-80)

CONTRACT NO.	TRANSMITTAL NO.	DATE
N40085-12-C-7714	02122016 1224	2/12/2016

FROM CONTRACTOR
Dragados USA - [redacted]

TO
OICC, [redacted] USN, CEC

PROJECT TITLE AND LOCATION
P1383 & P1384 - New Base Entry Point and Road at MCB Camp Lejeune

CONTRACTOR USE ONLY

*List only one specification division per form

List only one of the following categories on each transmittal form. and indicate which is being submitted

☐ Contractor Approved ■ OICC Approval ☐ Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

**** ACTION CODES**
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged
C-Comments
R-Resubmit

ITEM NO	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO.	ITEM IDENTIFICATION (Type, size, model no., Mfg name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES ***	REVIEWER'S INITIALS CODE AND DATE
1	23 09 23.13 22	BACnet Direct Digital Control Systems for HVAC	5,1		
		SD-05, Design data			
		Performance Verification Testing Plan (G)			

CONTRACTOR'S COMMENTS

Attention/ Scott Parkhurst, Commissioning Agent, CEMS Engineering|Architecture
The attached information is in support of the HVAC control systems for the CLEO buildings. The PVT plan was created by Triangle Automated Controls (TAC).

[redacted]

	CONTRAC
DATE RECEIVED BY REVIEWER	FROM (Reviewer)

☐ **Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.**

☐ **Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.**

REVIEWER'S COMMENTS

COPIES TO:	DATE	SIGNATURE
ROICC (2) LANTDIV (1) A-E (1)		

Performance Verification Test

DIRECT DIGITAL CONTROLS
Section 23 09 23.13 22 SD-05

P1383/P1384 GAME WARDEN/BASE ENTRY
Camp Lejeune,
North Carolina

February 12, 2016

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Performance Verification Test

Performance Verification Tests:

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2. HPHW-1 WATER HEATER SYSTEM	4-5
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7. HP-4	13-14
8. EFs 1 & 2	15
9. EF-3	16
10. MDSS/MDCUs 1 & 2	17
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BASE ENRTY	
1. HP-1	19-20
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3. HP-3	23-24
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Performance Test Report

Section 23 09 23.13 22 SD-05

3.5.2 Performance Verification Test

GEOTHERMAL WATER SYSTEM – GAME WARDEN

1. THE GEOTHERMAL WATER SYSTEM (GTWS) SHALL BE ENABLED AT ALL TIMES.

#	Test	Response	Comment	Pass/Fail
	Pump-1 START/STOP			
	ENABLE THE GEOTHERMAL WATER SYSTEM	PUMP-1 SHALL START AND RUN CONTINUOUSLY		
	DISABLED THE GEOTHERMAL WATER SYSTEM	PUMP-1 SHALL STOP		

2. PUMP-1 SHALL MODULATE TO MAINTAIN THE GEOTHERMAL WATER SYSTEM DIFFERENTIAL SET POINT.

#	Test	Response	Comment	Pass/Fail
	SECONDARY CHW PUMP CONTROL			
	WITH THE GTWS RUNNING, OVERRIDE THE DIFFERENTIAL SETPOINT ABOVE THE CURRENT DIFFERENTIAL PRESSURE.	THE VFD SHALL INCREASE SPEED TO MAINTAIN THE NEW DIFFERENTIAL PRESSURE SETPOINT		
	OVERRIDE THE DIFFERENTIAL SETPOINT BELOW THE CURRENT DIFFERENTIAL PRESSURE	THE VFD SHALL DECREASE SPEED TO MAINTAIN THE NEW DIFFERENTIAL PRESSURE SETPOINT		

3. ALARMS SHALL BE SENT FOR PUMP FAILURE AND GEOTHERMAL LEAK.

#	Test	Response	Comment	Pass/Fail
	ALARMS			
	COMMAND PUMP-1 ON AND PLACE THE DISCONNECT TO OFF POSTIION	AFTER 90 SECONDS AN ALARM SHALL BE GENERATED (CHW P-1 FAILURE)		
	POSITION DRAIN HAND VALVE TO ALLOW FLOW THROUGH THE GEOTHERMAL WATER MAKE-UP SMART METERS.	AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

3.5.2 Performance Verification Test

HPHW-1 WATER HEATER SYSTEM – GAME WARDEN

1. SYSTEM SHALL BE ENABLED AT ALL TIMES.
2. THE HPHW-1 SHALL MAINTAIN THE WATER TANK TEMPERATURE AT 130 DEG F.

#	Test	Response	Comment	Pass/Fail
	HPHW-1			
	RAISE THE HPHW-1 TANK TEMP SETPOINT ABOVE CURRENT TANK TEMP	HPHW-1 AND PUMP-2 SHALL BE ENERGZIED		
	LOWER THE HPHW-1 TANK TEMP SETPOINT BELOW THE CURRENT TANK TEMP	HPHW-1 AND PUMP-2 SHALL BE DE-ENERGZIED		

3. THE ELECTRIC WATER HEATER SHALL BE ENABLED IF THE TANK TEMP DROPS BELOW 120 DEG F.
4. THE ELECTRIC WATER HEATER SHALL HEAT THE WATER INSIDE THE TANK TO 140 DEG F ONCE A MONTH

#	Test	Response	Comment	Pass/Fail
	EHW-1			
	RAISE THE EWH-1 TANK TEMP SETPOINT ABOVE THE CURRENT TANK TEMP	EWH-1 SHALL BE ENERGZIED		
	LOWER THE EWH-1 TANK TEMP SETPOINT BELOW THE CURRENT TANK TEMP	EWH-1 SHALL BE DE-ENERGIZED		
	CHANGE THE CALENDER SO THAT THE EWH-1 IS SCHEDULED TO RAISE THE WATER TEMP TO 140 DEG F	EWH-1 SHALL BE ENERGIZED UNTIL THE WATER TEMP IS RAISE TO 140 DEG F		

5. PUMP-3 SHALL BE ENERGIZED IN THE OCCUPIED MODE IF THE TEMP SENSOR LOCATED AT THE FARTHEST HOT WATER RECEIVING FIXTURE DROPS BELOW 95 DEG F.
6. IF PUMP IS ENERGIZED, IT SHALL RUN FOR A MINIMUM OF 3 MINUTES.

#	Test	Response	Comment	Pass/Fail
	PUMP-3			
	PLACE THE SYSEM IN THE OCCUPIED MODE AND RAISE THE FIXTURE TEMP SETPOINT ABOVE THE CURRENT FIXTURE TEMP	PUMP-3 SHALL START		
	LOWER THE FIXTURE TEMP SETPOINT BELOW THE CURRENT FIXTURE TEMP	PUMP-3 SHALL STOP IF IT HAS BEEN RUNNING FOR MORE THAN 3 MINUTES OR RUN UNTIL 3 MINTUES HAS ELAPASED AND THEN STOP		

7. ALARMS SHALL BE SENT FOR PUMP FAILURES AND LOW WATER HEATER STORAGE INLET TEMP.

#	Test	Response	Comment	Pass/Fail
	ALARMS			
	COMMAND P-2 ON AND PLACE THE DISCONNECT IN THE OFF POSITION	AFTER 90 SECONDS AN ALARM SHALL BE GENERATED		
	COMMAND P-3 ON AND PLACE THE DISCONNECT IN THE OFF POSITION	AFTER 90 SECONDS AN ALARM SHALL BE GENERATED		
	RAISE THE INLET WATER STORAGE TANK TEMP SETPOINT ABOVE THE CURRENT TEMP	AFTER 30 SECONDS AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

Section 23 09 23.13 22 SD-05

3.5.2 Performance Verification Test

ERV-1

1. THE ERV SHALL RUN CONTINUOUSLY DURING THE OCCUPIED MODE AND SHUTDOWN IN THE UNOCCUPIED MODE

#	Test	Response	Comment	Pass/Fail
	ERV-1 START/STOP CONTROL			
	OVERRIDE THE SYSTEM TO UNOCCUPIED MODE	ERV-1 SUPPLY AND EXHAUST FAN SHALL STOP AND THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE		
	OVERRIDE THE SYSTEM TO OCCUPIED MODE	OUTSIDE AND EXHAUST AIR DAMPER SHALL OPEN AND THE SUPPLY AND EXHAUST FANS SHALL START AND RUN CONTINUOUSLY		

2. THE UNIT SHALL SHUTDOWN UPON A SIGNAL FROM THE FIRE ALARM OR ATFP.
3. UPON SHUTDOWN, THE FANS SHALL STOP AND THE DAMPERS SHALL CLOSE.

#	Test	Response	Comment	Pass/Fail
	SAFETY INTERLOCKS			
	TRIGGER THE ATFP BUTTON	ERV WILL SHUTDOWN, SUPPLY AND RETURN FANS WILL STOP AND DAMPER SHALL CLOSE		

4. ALARMS SHALL BE SENT IF THE FOLLOWING CONDITIONS ARE MET:
   a. SUPPLY FAN AND EXHAUST FAIL TO RUN
   b. DIRTY FILTER

#	Test	Response	Comment	Pass/Fail
	ERV-1 ALARMS			
	TRIP THE OA FILTER DIFFERENTIAL PRESSURE TO SIMULATE A DIRY FILTER	AN ALARM SHALL BE GENERATED		
	TRIP THE EA FILTER DIFFERENTIAL PRESSURE TO SIMULATE A DIRY FILTER	AN ALARM SHALL BE GENERATED		
	COMMAND ERV "ON" AND PLACE THE DISCONNECT IN THE OFF POSITION	AFTER 90 SECONDS AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

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3.5.2 Performance Verification Test

HP-1 – Game Warden

1. DURING THE OCCUPIED MODE THE HP-1 SHALL MAINTAIN A COOLING SETPOINT OF 75 DEG F AND A HEAT SETPOINTING OF 70 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-1 OCCUPIED MODE			
	OVERRIDE THE SYSTEM TO OCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE OUTSIDE AIR DAMPER WILL OPEN AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND THE OUTSIDE AIR DAMPER SHALL CLOSE		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	THE OUTSIDE AIR DAMPER WILL OPEN AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND THE OUTSIDE AIR DAMPER SHALL CLOSE		

2. DURING THE UNOCCUPIED MODE THE HP-1 SHALL MAINTAIN A COOLING SETPOINT OF 85 DEG F AND A HEAT SETPOINTING OF 60 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-1 UNOCCUPIED MODE			
	OVERRIDE THE SYSTEM TO UNOCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE OUTSIDE AIR DAMPER WILL OPEN AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F AND THE OUTSIDE AIR DAMPER SHALL CLOSE		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	THE OUTSIDE AIR DAMPER WILL OPEN AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		

	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND THE OUTSIDE AIR DAMPER SHALL CLOSE		
	PRESS THE OCCUPANCY OVERRIDE BUTTON THE THERMOSTAT ASSOCIATED WITH THE UNIT	UNIT SHALL BE PLACED IN OCCUPIED MODE PER INTERNAL CONTROLS		

3. THE UNIT SHALL SHUTDOWN UPON A SIGNAL FROM THE FIRE ALARM OR ATFP.
4. UPON SHUTDOWN, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

#	Test	Response	Comment	Pass/Fail
	SAFETY INTERLOCKS			
	CHANGE THE SETPOINT TO FORCE THE HP-1 TO RUN. TRIGGER THE ATFP BUTTON	HP WILL SHUTDOWN		

5. ALARMS SHALL BE SENT IF THE FOLLOWING CONDITIONS ARE MET:
    a. DIRTY FILTER STATUS

#	Test	Response	Comment	Pass/Fail
	HP ALARMS			
	TRIP THE FILTER DIFFERENTIAL PRESSURE TO SIMULATE A DIRY FILTER	AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

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3.5.2 Performance Verification Test

HP-2 – Game Warden

1. DURING THE OCCUPIED MODE THE HP-2 SHALL MAINTAIN A COOLING SETPOINT OF 75 DEG F AND A HEAT SETPOINTING OF 70 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-2 OCCUPIED MODE			
	OVERRIDE THE SYSTEM TO OCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F		

2. DURING THE UNOCCUPIED MODE THE HP-2 SHALL MAINTAIN A COOLING SETPOINT OF 85 DEG F AND A HEAT SETPOINTING OF 60 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-2 UNOCCUPIED MODE			
	OVERRIDE THE SYSTEM TO UNOCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F		
	PRESS THE OCCUPANCY OVERRIDE BUTTON THE THERMOSTAT ASSOCIATED WITH THE UNIT	UNIT SHALL BE PLACED IN OCCUPIED MODE PER INTERNAL CONTROLS		

3. THE UNIT SHALL SHUTDOWN UPON A SIGNAL FROM THE FIRE ALARM OR ATFP.

4. UPON SHUTDOWN, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

#	Test	Response	Comment	Pass/Fail
	SAFETY INTERLOCKS			
	CHANGE THE SETPOINT TO FORCE THE HP-2 TO RUN. TRIGGER THE ATFP BUTTON	HP WILL SHUTDOWN		

5. ALARMS SHALL BE SENT IF THE FOLLOWING CONDITIONS ARE MET:
   b. DIRTY FILTER STATUS

#	Test	Response	Comment	Pass/Fail
	HP ALARMS			
	TRIP THE FILTER DIFFERENTIAL PRESSURE TO SIMULATE A DIRY FILTER	AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

Section 23 09 23.13 22 SD-05

3.5.2 Performance Verification Test

HP-3 – Game Warden

1. DURING THE OCCUPIED MODE THE HP-3 SHALL MAINTAIN A COOLING SETPOINT OF 75 DEG F AND A HEAT SETPOINTING OF 70 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-3 OCCUPIED MODE			
	OVERRIDE THE SYSTEM TO OCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F		

2. DURING THE UNOCCUPIED MODE THE HP-3 SHALL MAINTAIN A COOLING SETPOINT OF 85 DEG F AND A HEAT SETPOINTING OF 60 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-3 UNOCCUPIED MODE			
	OVERRIDE THE SYSTEM TO UNOCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F		
	PRESS THE OCCUPANCY OVERRIDE BUTTON THE THERMOSTAT ASSOCIATED WITH THE UNIT	UNIT SHALL BE PLACED IN OCCUPIED MODE PER INTERNAL CONTROLS		

3. THE UNIT SHALL SHUTDOWN UPON A SIGNAL FROM THE FIRE ALARM OR ATFP.

4. UPON SHUTDOWN, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

#	Test	Response	Comment	Pass/Fail
	SAFETY INTERLOCKS			
	CHANGE THE SETPOINT TO FORCE THE HP-3 TO RUN. TRIGGER THE ATFP BUTTON	HP WILL SHUTDOWN		

5. ALARMS SHALL BE SENT IF THE FOLLOWING CONDITIONS ARE MET:
   c. DIRTY FILTER STATUS

#	Test	Response	Comment	Pass/Fail
	HP ALARMS			
	TRIP THE FILTER DIFFERENTIAL PRESSURE TO SIMULATE A DIRY FILTER	AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

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3.5.2 Performance Verification Test

HP-4 – Game Warden

1. DURING THE OCCUPIED MODE THE HP-4 SHALL MAINTAIN A COOLING SETPOINT OF 75 DEG F AND A HEAT SETPOINTING OF 70 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-4 OCCUPIED MODE			
	OVERRIDE THE SYSTEM TO OCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F		

2. DURING THE UNOCCUPIED MODE THE HP-4 SHALL MAINTAIN A COOLING SETPOINT OF 85 DEG F AND A HEAT SETPOINTING OF 60 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-4 UNOCCUPIED MODE			
	OVERRIDE THE SYSTEM TO UNOCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE OF F		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F		
	PRESS THE OCCUPANCY OVERRIDE BUTTON THE THERMOSTAT ASSOCIATED WITH THE UNIT	UNIT SHALL BE PLACED IN OCCUPIED MODE PER INTERNAL CONTROLS		

3. THE UNIT SHALL SHUTDOWN UPON A SIGNAL FROM THE FIRE ALARM OR ATFP.

4. UPON SHUTDOWN, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

#	Test	Response	Comment	Pass/Fail
	SAFETY INTERLOCKS			
	CHANGE THE SETPOINT TO FORCE THE HP-4 TO RUN. TRIGGER THE ATFP BUTTON	HP WILL SHUTDOWN		

5. ALARMS SHALL BE SENT IF THE FOLLOWING CONDITIONS ARE MET:
    d. DIRTY FILTER STATUS

#	Test	Response	Comment	Pass/Fail
	HP ALARMS			
	TRIP THE FILTER DIFFERENTIAL PRESSURE TO SIMULATE A DIRY FILTER	AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

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3.5.2 Performance Verification Test

EF-1 (FEMALE HEAD) & EF-2 (MALE HEAD) – GAME WARDEN

1. THE FANS ARE CONTROLLED BY AN OCCUPNACY SENSOR.
2. UPON DETECTION THAT THE ROOM IS OCCUPIED THE EXHAUST FAN SHALL START AND THE BACKDRAFT DAMPER SHALL OPEN.
3. UPON A SIGNAL FROM THE ATFP SWITCH THE UNIT SHALL STOP ALL FANS AND CLOSE ALL DAMPERS.

#	Test	Response	Comment	Pass
	EF-1 (FEMALE HEAD) CONTROL			
	ENTER THEN HEAD ROOM	FAN SHALL START		
	EXIST THE HEAD ROOM	AFTER 5 MIN. THE FAN SHALL STOP		
	EF-2 (MALE HEAD) CONTROL			
	ENTER THEN HEAD ROOM	FAN SHALL START		
	EXIST THE HEAD ROOM	AFTER 5 MIN. THE FAN SHALL STOP		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

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3.5.2 Performance Verification Test

EF-3 (VEHICLE BAY) – GAME WARDEN

1. THE FAN FROM A SPACE CARBON MONOXIDE SENSOR.
2. UPON A RISE IN CO LEVEL ABOVE THE SETPOINT THE FAN SHALL BE ENERGIZED
3. UPON A DROP IN CO LEVEL BELOW THE SETPOINT THE FAN SHALL

#	Test	Response	Comment	Pass
	EF-3 (VEHICLE BAY) CONTROL			
	LOWER THE CO SETPOINT BELOW THE CURRENT SETPOINT	FAN SHALL START		
	RAISE THE CO SETPOINT ABOVE THE CURRENT SETPOINT	FAN SHALL STOP		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

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3.5.2 Performance Verification Test

MDSS/MDCU – GAME WARDEN

1. OPERATE THE MDSS/MDCU FROM ITS OWN SELF CONTAINED CONTROLS.
2. WHEN MDSS/MDCU THERMOSTAT CALLS FOR AIR CONDITIONING, MDSS/MDCU WILL START AND MAINTAIN SPACE SETPOINT.
3. WHEN THE SPACE TEMP IS SATISFIED, MDSS/MDCU WILL STOP.

#	Test	Response	Comment	Pass
	MDSS/MDCU-1 CONTROL			
	LOWER THE THERMOSTAT BELOW THE CURRENT SPACE TEMP	MDSS/MDCU-1 SHALL START		
	RAISE THE THERMOSTAT ABOVE THE CURRENT SPACE TEMP	MDSS/MDCU-1 SHALL STOP		
	MDSS/MDCU-2 CONTROL			
	LOWER THE THERMOSTAT BELOW THE CURRENT SPACE TEMP	MDSS/MDCU-2 SHALL START		
	RAISE THE THERMOSTAT ABOVE THE CURRENT SPACE TEMP	MDSS/MDCU-2 SHALL STOP		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

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3.4.2 Performance Verification Test

ATFP SWITCH—GAME WARDEN

THE ANTI-TERRORISM FORCE PROTECTION SWITCH (ATFP) LOCATED IN THE MAIN LOBBY UPON ACTIVATION SHALL SHUTDOWN THE HVAC SYSTEM.

#	Test	Response	Comment	Pass/Fail
	ATFP SHUTDOWN:			
	DEPRESS THE ATFP SWITCH TO TRIGGER THE SHUTDOWN MODE	ERV AND HPs SHALL STOP AND ALL MOTORIZED DAMPERS SHALL CLOSE.		
	RESET THE ATFP SWITCH TO NORMAL	ERV AND HPs AND MOTORIZED DAMPERS SHALL RETURN TO NORMAL POSITION		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

Section 23 09 23.13 22 SD-05

3.5.2 Performance Verification Test

HP-1 –BASE ENTRY

1. DURING THE OCCUPIED MODE THE HP-1 SHALL MAINTAIN A COOLING SETPOINT OF 75 DEG F AND A HEAT SETPOINTING OF 70 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-1 OCCUPIED MODE			
	OVERRIDE THE SYSTEM TO OCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	PUMP-1 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-1 SHALL STOP		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	PUMP-1 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-1 SHALL STOP		

2. DURING THE UNOCCUPIED MODE THE HP-1 SHALL MAINTAIN A COOLING SETPOINT OF 85 DEG F AND A HEAT SETPOINTING OF 60 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-1 UNOCCUPIED MODE			
	OVERRIDE THE SYSTEM TO UNOCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	PUMP-1 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-1 SHALL STOP		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	PUMP-1 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-1 SHALL STOP		
	PRESS THE OCCUPANCY OVERRIDE BUTTON THE THERMOSTAT ASSOCIATED WITH THE UNIT	UNIT SHALL BE PLACED IN OCCUPIED MODE PER INTERNAL CONTROLS		

3. THE UNIT SHALL SHUTDOWN UPON A SIGNAL FROM THE FIRE ALARM OR ATFP.

4. UPON SHUTDOWN, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

#	Test	Response	Comment	Pass/Fail
	SAFETY INTERLOCKS			
	CHANGE THE SETPOINT TO FORCE THE HP-1 TO RUN. TRIGGER THE ATFP BUTTON	HP WILL SHUTDOWN		

5. ALARMS SHALL BE SENT IF THE FOLLOWING CONDITIONS ARE MET:
    e. DIRTY FILTER STATUS

#	Test	Response	Comment	Pass/Fail
	HP ALARMS			
	TRIP THE FILTER DIFFERENTIAL PRESSURE TO SIMULATE A DIRY FILTER	AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

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3.5.2 Performance Verification Test

HP-2 –BASE ENTRY

1. DURING THE OCCUPIED MODE THE HP-2 SHALL MAINTAIN A COOLING SETPOINT OF 75 DEG F AND A HEAT SETPOINTING OF 70 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-2 OCCUPIED MODE			
	OVERRIDE THE SYSTEM TO OCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	PUMP-2 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-2 SHALL STOP		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	PUMP-2 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-2 SHALL STOP		

2. DURING THE UNOCCUPIED MODE THE HP-2 SHALL MAINTAIN A COOLING SETPOINT OF 85 DEG F AND A HEAT SETPOINTING OF 60 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-2 UNOCCUPIED MODE			
	OVERRIDE THE SYSTEM TO UNOCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	PUMP-2 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-2 SHALL STOP		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	PUMP-2 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-2 SHALL STOP		
	PRESS THE OCCUPANCY OVERRIDE BUTTON THE THERMOSTAT ASSOCIATED WITH THE UNIT	UNIT SHALL BE PLACED IN OCCUPIED MODE PER INTERNAL CONTROLS		

3. THE UNIT SHALL SHUTDOWN UPON A SIGNAL FROM THE FIRE ALARM OR ATFP.

4. UPON SHUTDOWN, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

#	Test	Response	Comment	Pass/Fail
	SAFETY INTERLOCKS			
	CHANGE THE SETPOINT TO FORCE THE HP-2 TO RUN. TRIGGER THE ATFP BUTTON	HP WILL SHUTDOWN		

5. ALARMS SHALL BE SENT IF THE FOLLOWING CONDITIONS ARE MET:
    f. DIRTY FILTER STATUS

#	Test	Response	Comment	Pass/Fail
	HP ALARMS			
	TRIP THE FILTER DIFFERENTIAL PRESSURE TO SIMULATE A DIRY FILTER	AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

Section 23 09 23.13 22 SD-05

3.5.2 Performance Verification Test

HP-3 –BASE ENTRY

1. DURING THE OCCUPIED MODE THE HP-3 SHALL MAINTAIN A COOLING SETPOINT OF 75 DEG F AND A HEAT SETPOINTING OF 70 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-3 OCCUPIED MODE			
	OVERRIDE THE SYSTEM TO OCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	PUMP-3 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-3 SHALL STOP		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	PUMP-3 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-3 SHALL STOP		

2. DURING THE UNOCCUPIED MODE THE HP-3 SHALL MAINTAIN A COOLING SETPOINT OF 85 DEG F AND A HEAT SETPOINTING OF 60 DEG F. UNIT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING AND COOLING SETPOINT.

#	Test	Response	Comment	Pass/Fail
	HP-3 UNOCCUPIED MODE			
	OVERRIDE THE SYSTEM TO UNOCCUPIED MODE AND RAISE THE HEATING SETPOINT ABOVE THE CURRENT SPACE TEMP	PUMP-3 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE HEATING SETPOINT BELOW THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-3 SHALL STOP		
	LOWER THE COOLING SETPOINT BELOW THE CURRENT SPACE TEMP	PUMP-3 SHALL START AND THE HEATPUMP WILL CYCLE ON AND OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE SETPOINT		
	LOWER THE COOLING SETPOINT ABOVE THE CURRENT SPACE TEMP	THE HEATPUMP WILL CYCCLE OF F AND PUMP-3 SHALL STOP		
	PRESS THE OCCUPANCY OVERRIDE BUTTON THE THERMOSTAT ASSOCIATED WITH THE UNIT	UNIT SHALL BE PLACED IN OCCUPIED MODE PER INTERNAL CONTROLS		

3. THE UNIT SHALL SHUTDOWN UPON A SIGNAL FROM THE FIRE ALARM OR ATFP.

4. UPON SHUTDOWN, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

#	Test	Response	Comment	Pass/Fail
	SAFETY INTERLOCKS			
	CHANGE THE SETPOINT TO FORCE THE HP-3 TO RUN. TRIGGER THE ATFP BUTTON	HP WILL SHUTDOWN		

5. ALARMS SHALL BE SENT IF THE FOLLOWING CONDITIONS ARE MET:

   g. DIRTY FILTER STATUS

#	Test	Response	Comment	Pass/Fail
	HP ALARMS			
	TRIP THE FILTER DIFFERENTIAL PRESSURE TO SIMULATE A DIRY FILTER	AN ALARM SHALL BE GENERATED		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

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3.5.2 Performance Verification Test

EF-1 (FEMALE HEAD), EF-2 (MALE HEAD), EF-3 (UNISEX), AND EF-5 HEAD – BASE ENTRY

1. THE FANS ARE CONTROLLED BY AN OCCUPNACY SENSOR.
2. UPON DETECTION THAT THE ROOM IS OCCUPIED THE EXHAUST FAN SHALL START AND THE BACKDRAFT DAMPER SHALL OPEN.
3. UPON A SIGNAL FROM THE ATFP SWITCH THE UNIT SHALL STOP ALL FANS AND CLOSE ALL DAMPERS.

#	Test	Response	Comment	Pass
	EF-1 (FEMALE HEAD) CONTROL			
	ENTER THEN HEAD ROOM	FAN SHALL START		
	EXIST THE HEAD ROOM	AFTER 5 MIN. THE FAN SHALL STOP		
	EF-2 (MALE HEAD) CONTROL			
	ENTER THEN HEAD ROOM	FAN SHALL START		
	EXIST THE HEAD ROOM	AFTER 5 MIN. THE FAN SHALL STOP		
	EF-3 (UNISEX) CONTROL			
	ENTER THEN HEAD ROOM	FAN SHALL START		
	EXIST THE HEAD ROOM	AFTER 5 MIN. THE FAN SHALL STOP		
	EF-5 (HEAD) CONTROL			
	ENTER THEN HEAD ROOM	FAN SHALL START		
	EXIST THE HEAD ROOM	AFTER 5 MIN. THE FAN SHALL STOP		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

3.5.2 Performance Verification Test

EF-4 (JANITOR) – BASE ENTRY

1. FAN SHALL RUN DURING OCCUPIED HOURS

#	Test	Response	Comment	Pass
	EF-4(JANITOR) CONTROL			
	PLACE THE DDC SYSTEM IN THE OCCUPIED MODE	FAN SHALL START		
	PLACE THE DDC SYSTEM IN THE UNOCCUPIED MODE	FAN SHALL STOP		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

Performance Test Report

Section 23 09 23.13 20 SD-05

3.5.2 Performance Verification Test

MDSS/MDCU – BASE ENTRY

4. OPERATE THE MDSS/MDCU FROM ITS OWN SELF CONTAINED CONTROLS.

5. WHEN MDSS/MDCU THERMOSTAT CALLS FOR AIR CONDITIONING, MDSS/MDCU WILL START AND MAINTAIN SPACE SETPOINT.

6. WHEN THE SPACE TEMP IS SATISFIED, MDSS/MDCU WILL STOP.

#	Test	Response	Comment	Pass
	MDSS/MDCU-1 CONTROL			
	LOWER THE THERMOSTAT BELOW THE CURRENT SPACE TEMP	MDSS/MDCU-1 SHALL START		
	RAISE THE THERMOSTAT ABOVE THE CURRENT SPACE TEMP	MDSS/MDCU-1 SHALL STOP		
	MDSS/MDCU-2 CONTROL			
	LOWER THE THERMOSTAT BELOW THE CURRENT SPACE TEMP	MDSS/MDCU-2 SHALL START		
	RAISE THE THERMOSTAT ABOVE THE CURRENT SPACE TEMP	MDSS/MDCU-2 SHALL STOP		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

3.4.2 Performance Verification Test

ATFP SWITCH—BASE ENTRY

THE ANTI-TERRORISM FORCE PROTECTION SWITCH (ATFP) LOCATED IN THE MAIN LOBBY UPON ACTIVATION SHALL SHUTDOWN THE HVAC SYSTEM.

#	Test	Response	Comment	Pass/Fail
	ATFP SHUTDOWN:			
	DEPRESS THE ATFP SWITCH TO TRIGGER THE SHUTDOWN MODE	HPs SHALL STOP		
	RESET THE ATFP SWITCH TO NORMAL	HPs SHALL RETURN TO NORMAL OPERATION		

THIS UNIT HAS BEEN TESTED AND VERIFIED TO BE OPERATING PER DESIGN

Name:_____ **Company:**_____ **Date:**_____

From: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune
To: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] MIDLANT, ROICC Camp Lejeune
Subject: RE: MISSING CRASH BARRIER ARM
Date: Monday, February 01, 2016 9:46:00

Hi guys -

Just curious, what other contract are they in? Are we sure we're not missing something from ours? Just confused as all of our other contracts in the area are complete...

Thanks!

[redacted]

[redacted]
Contract Specialist
ROICC Camp Lejeune
[redacted]
DSN [redacted]
([redacted] fax
[redacted]

-----Original Message-----
From: [redacted] [mailto:[redacted]]
Sent: Thursday, January 28, 2016 3:58 PM
To: [redacted] MARFORCOM, SES/PMO; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] MCI East)
[redacted] PM, Group III Management)
Subject: [Non-DoD Source] FW: MISSING CRASH BARRIER ARM

Good afternoon. I am resending this email from 3Nov and adding [redacted] (Base PMO) to this email because he inquired to my superintendent when we're putting the Wilson gate crash barrier arms in. As you know, we're not, they are in another contract. Thanks. R[redacted]

[redacted] | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w[redacted] c[redacted] | [redacted]
<mailto[redacted]>

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attachments from your system and any copies you may have made, electronic or otherwise.

From [redacted]
Sent: Tuesday, November 03, 2015 10:07 AM
To [redacted] (NAVFAC inbound OICC); [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune [redacted] (NAVFAC Contract Spec); [redacted] (MCI East)
Cc [redacted] (Dragados USA QC Specialist); [redacted] (PM, Group III Management)
Subject: MISSING CRASH BARRIER ARM

Good morning. Please see attached drawings SF104 and SF 105. They indicate there are existing crash barrier arms at the entrances to the inbound lanes coming into the Wilson Gate. These are not present. This is for information only. Thanks. R/ [redacted]

[redacted] | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w[redacted] c[redacted] | Email: [redacted]
<mailto [redacted]

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From: [redacted] NAVFAC MIDLANT, CI
To: [redacted]
Cc: [redacted] (Group III Mgt.) [redacted] (PM, Group III Management); [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; Tim Larson
Subject: RE: CI52 ACCEPTANCE TESTING SCHEDULE (P1383/P1384)
Date: Monday, February 01, 2016 9:08:04
Attachments: 2016-01-29a-P-1383 HVAC Acceptance Tasks Schedule Rev00.pdf

---

[redacted]

Yes, TAB prerequisite HVAC work checkout list.

I should note, for clarification overall, the task numbers change as additional tasks are added within the schedule due to reviews, resubmittals, etc., so the task title should be referenced instead (e.g.: TAB prerequisite HVAC work checkout list) of the number. For example, once I receive the HVAC checklist, the checklist review task for CI52 will become Task 21 and the pre-PVT checklist Task 22 (from 21), etc. on down the list until the last task. I admit this is not the best numbering scheme, but it is the one CI52 has adopted due to the number of tasks involved and the potential resubmittals. The one handy feature is the Task Prerequisite column actually changes to match (more formula "magic") as the subsequent task numbers change. This is even true of tasks like the PVT field work task with multiple prerequisites.

To illustrate the above, I have updated the task schedule to include the Site Observation field visit (#18) I performed last July, with its associated comment document (inserted as #19) and anticipated KTR responses (inserted as #20), which shifts the task numbers for the items below it. I was actually looking at this version, updated Friday, when I referred to the HVAC checklist as Task 22, which it now is.

Respectfully,

[redacted]

[redacted], EIT, PMP
Mechanical Acceptance Engineer
[redacted] / DSN: [redacted] : [redacted] / FAX [redacted]
peter.glade@navy mil

-----Original Message-----
From: [redacted] [mailto:[redacted]]
Sent: Monday, February 01, 2016 8:39 AM
To: [redacted] NAVFAC MIDLANT, CI
Cc: [redacted] (Group III Mgt.); [redacted] (PM, Group III Management); [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted]
Subject: [Non-DoD Source] RE: CI52 ACCEPTANCE TESTING SCHEDULE (P1383/P1384)

Thanks [redacted]. We have passed the example you provided to Research Air Flow for their use in modifying the TAB check out lists. I'll have a new list for you [redacted], and [redacted] consideration today. **clarification: you meant schedule task 20, correct? Thanks. R[redacted]

[redacted] | Deputy Project Manager & Small Business Liaison | |

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-----Original Message-----
From: [redacted] NAVFAC MIDLANT, CI [mailto:[redacted]]

The Schedule Task 22 is the submission of the completed Pre-TAB checklist, after the TAB agency reviews the construction progress to confirm the status of the project, as noted in 23 05 93 Appendix A, section 2 f and section 3.c, along with Appendix C, sequence entitled "Advance Notice of Season 1 TAB Field Work". Attached is an example Pre-DALT checklist from your TAB agency, from a single piece of equipment on another project. The Pre-TAB checklist is similar.

VER 19.04	HVAC ACCEPTANCE TASKS SCHEDULE - P-1383/1384; New Base Entry Road							TYPE: DBB	CURRENT AS OF: 29 Jan 2016; 1330 Hrs
TASK		PERSONS		DATES				TASK	REFERENCES / NOTES
NUMBER	DESCRIPTION	BEGIN	END	SUBMITTALS		TESTING / MEETINGS		PREREQUISITES	
				DUE	ACTUAL	START	END		
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)
01	Pre-DALT / TAB meeting	CI52, CM, IPT, GC, CC, & TAB		-	-			-	Specification 23 05 93 page 5, section 3.2.
02	TAB agency and TAB personnel qualifications submittal number 01 submitted for review	TAB	CI52		23 Jun 14	-	-	-	Specification 23 05 93 page 4, section 1.5.1.
03	TAB agency and TAB personnel qualifications submittal number 01 review comments	CI52	TAB	07 Jul 14	30 Jul 14	-	-	02	2 week minimum turn around.
04	TAB agency and TAB personnel qualifications submittal number 01 review comments responses 01	TAB	CI52	13 Aug 14	Not Required	-	-	03	
05	TAB pre-field engineering report submittal number 01 submitted for review	TAB	CI52		23 Jun 14	-	-	-	Specification 23 05 93 page 12, Appendix B, section 2.d.
06	TAB pre-field engineering report submittal number 01 review comments	CI52	TAB	07 Jul 14	30 Jul 14	-	-	05	2 week minimum turn around.
07	TAB pre-field engineering report submittal number 01 review comments responses 01	TAB	CI52	13 Aug 14	Not Required	-	-	06	
08	Ductwork air leakage test (DALT) and TAB procedures summary submittal number 01 submitted for review	TAB	CI52		23 Jun 14	-	-	-	Specification 23 05 93 page 12, Appendix B, section 2
09	TAB procedures summary submittal number 01 review comments	CI52	TAB	07 Jul 14	30 Jul 14	-	-	08	2 week minimum turn around.
10	TAB procedures summary submittal number 01 review comments responses 01	TAB	CI52	13 Aug 14	Not Required	-	-	09	
11 (Overdue)	TAB field work execution schedule submittal number 01 submitted for review	TAB	CI52	30 Mar 15		-	-	-	Specification 23 05 93 page 5, section 1.6 and page 12, Appendix B, section 1.
12	TAB design review report submittal number 01 submitted for review	TAB	CI52		10 Dec 14	-	-	-	Specification 23 05 93 page 9, Appendix A, section 2.3 and page 13, Appendix B, section 3.
13	TAB design review report submittal number 01 review comments	CI52	TAB	24 Dec 14	18 Dec 14	-	-	12	2 week minimum turn around.
14	TAB design review report submittal number 01 review comments responses 01	TAB	CI52	01 Jan 15	Not Required	-	-	13	
15	Contract document submittal number 01 submitted for review	DOR	CI52	30 Mar 15	Unknown	-	-	-	Includes current basis of design, specifications, and drawings.
16	Facility dry-out	GC		-	-			-	
17 (Overdue)	Performance verification test (PVT) plan submittal number 01 submitted for review	CC	CI52	30 Mar 15		-	-	-	Specification 23 09 23.13 20 page 36, section 3.5.2.
18	Site observation number 01 field work	CI52		-	-	24 Jun 15	24 Jun 15	-	
19	Site observation number 01 comments	CI52	GC	08 Jul 15	01 Jul 15	-	-	18	2 week minimum turn around.
20 (Overdue)	Site observation number 01 comments responses 01	GC	CI52	15 Jul 15		-	-	19	
21	Equipment Start-Up	GC		-	-			-	

VER 19.04	HVAC ACCEPTANCE TASKS SCHEDULE - P-1383/1384; New Base Entry Road							TYPE: DBB	CURRENT AS OF: 29 Jan 2016; 1330 Hrs
TASK		PERSONS		DATES				TASK	REFERENCES / NOTES
NUMBER	DESCRIPTION	BEGIN	END	SUBMITTALS		TESTING / MEETINGS		PREREQUISITES	
				DUE	ACTUAL	START	END		
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)
22 (Overdue)	TAB prerequisite HVAC work checkout list submitted for review	TAB	CI52	30 Mar 15		-	-	21	Specification 23 05 93 page 9, Appendix A, section 1.f and page 12, Appendix B, section 2.f.
23 (Overdue)	Completed pre-performance verification test (PVT) checklist submittal number 01 submitted for review	CC	CI52	30 Mar 15		-	-	-	Specification 23 09 23.13 20 page 36, section 3.5.4.
24 (Overdue)	Graphic control loop stability trend logs submittal number 01 submitted for review	CC	CI52	30 Mar 15		-	-	-	Specification 23 09 23.13 20 page 40, section 3.5.10.
25	TAB field work number 01	TAB		-	-	**Date Needed**		-	
26	TAB report submittal number 01 submitted for DOR review	TAB	DOR			-	-	25	Specification 23 05 93 page 13, Appendix B, section 4.
27	TAB report submittal number 01 and DOR comments submitted for review	DOR	CI52			-	-	26	Specification 23 05 93 page 13, Appendix B, section 4.
28	Functional performance test (FPT) field work in presence of CxA (Not in presence of CI52)	CxA, CC, And TAB		-	-	**Date Needed**			Specification 23 08 00.00 10 page 6, section 3.2.2.
29	FPT results submittal number 01 submitted to determine systems' readiness for PVT	CxA	CI52			-	-	28	
30	PVT field work number 01 in presence of CI52 (Government Acceptance Testing) (Not in presence of CxA)	CI52 And CC		-	-	**Date Needed**		1, 15, 17, 20, 23, 24, 27, And 29	Specification 23 09 23.13 20 page 36, section 3.5.3. Hours estimated for this task: 8.
31	PVT report submittal number 01 submitted for review	CC	CI52			-	-	30	Specification 23 09 23.13 20 page 40, section 3.5.11.
32	PVT report submitted for incorporation into Cx report	CC	CxA			-	-	31	Specification 23 08 00.00 10 page 6, section 3.3.
33	Final control system settings CD submitted	CC	CM			-	-	31	Specification 23 09 23.13 22 page 34, section 3.4.
34	TAB verification for season 01 field work number 01 in presence of CI52 (Government Acceptance Testing) (Not in presence of CxA)	CI52, CC, And TAB		-	-			30	Specification 23 05 93 page 7, section 3.3.9.1. Hours estimated for this task: 8.
35	TAB verification for season 01 report submitted for incorporation into Cx report	TAB	CxA			-	-	34	Specification 23 08 00.00 10 page 6, section 3.3.
36	Facility acceptance recommendation 01	CI52	CM			-	-	30 And 34	
37	Beneficial occupancy date (BOD)	CM		**Date Needed**		-	-	36	BOD occurs after resolution of critical PVT, TAB, and site observation issues identified in facility acceptance recommendation.
38	TAB season of maximum heating load field work report 01 submittal submitted for review	TAB	CI52	**Date Needed**		-	-	-	Specification 23 05 93 page 7, section 3.3.5.2.
39	TAB season of maximum cooling load field work report 01 submittal submitted for review	TAB	CI52	**Date Needed**		-	-	-	Specification 23 05 93 page 7, section 3.3.5.2.

VER 19.04	HVAC ACCEPTANCE TASKS SCHEDULE - P-1383/1384; New Base Entry Road							TYPE: DBB	CURRENT AS OF: 29 Jan 2016; 1330 Hrs
TASK		PERSONS		DATES				TASK	REFERENCES / NOTES
NUMBER	DESCRIPTION	BEGIN	END	SUBMITTALS		TESTING / MEETINGS		PREREQUISITES	
				DUE	ACTUAL	START	END		
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)
40	TAB verification for season 02 field work number 01 in presence of CI52 (Government Acceptance Testing) (Not in presence of CxA)	CI52, CC, And TAB		-	-			37	Specification 23 05 93 page 7, section 3.3.9.1. Hours estimated for this task: 8.
41	Outstanding issues resolution notification	CI52	CM			-	-	31, 34, 38, 39, And 40	

PERSONS LEGEND:

CC	Controls Contractor	DOR	Designer of Record
CI52	Naval Facilities Command - Mid-Atlantic Acceptance Group	GC	General Contractor
CM	Naval Facilities Command - Mid-Atlantic Construction Manager	IPT	Integrated Production Team
CxA	Commissioning Authority	TAB	Test and Balance Contractor

From: [redacted]
To: [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) [redacted] NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) [redacted]
Cc: (b)(6) [redacted] (Group III Mgt.); (b)(6) [redacted] (PM, Group III Management)
Subject: [Non-DoD Source] RE: SEEKING OICC SIGNATURE ON T-925 REV 2
Date: Monday, February 01, 2016 9:07:41
Attachments: image001.png

It appears that you have capture the issue.

(b)(6) [redacted], P.E., PMP

Principal, Environmental & Infrastructure Americas, Amec Foster Wheeler

M 704 682 3728

(b)(6) [redacted] amecfw.com

From: (b)(6) [redacted] [mailto(b)(6) [redacted]]
Sent: Friday, January 29, 2016 12:25 PM
To: (b)(6) [redacted] (NAVFAC inbound OICC) (b)(6) [redacted]>; (b)(6) [redacted] (NAVFAC Contract Spec) (b)(6) [redacted]
(b)(6) [redacted]
(b)(6) [redacted]
Cc: (b)(6) [redacted]
(b)(6) [redacted] (Group III Mgt.) (b)(6) [redacted]
(b)(6) [redacted] (PM, Group III Management) (b)(6) [redacted]
Subject: SEEKING OICC SIGNATURE ON T-925 REV 2
Importance: High

Good afternoon (b)(6) [redacted].

Bottom line up front: I have designer concurrence to transmittal 925 Rev-2 and I seek your concurrence to it.

Background: This submittal is for the HVAC controls for the CLEO. It's been very challenging and the CEMS engineer isn't satisfied my subcontractor is showing the control valve connection for the heat pumps to the DDC system as requested and shown on the stamped and signed drawings. It's not an intentional omission on our part and we weren't able to resolve this through discussion with CEMS. (b)(6) [redacted] and (b)(6) [redacted] followed the discussion and when it reached a stale-mate recommend approval 'AS-NOTED WITH AN UPDATED ELECTRONIC COPY TO FOLLOW"

Issue: We're providing the heat pump control valve. At the time of this submittal, Johnson Controls was providing

control of the heat pump. Our DDC sub didn't want to put his control on top of the Johnson Control to control the heat pump. CEMS feels this is necessary.

Solution: My sub will add the necessary controls to satisfy the requirement and we will proceed with an updated electronic copy of the transmittal.

(b)(6) – Do you feel I stated this accurately?

Thanks. R/

(b)(6) | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w (b)(6) | c (b)(6) | Email: (b)(6)
<mailto (b)(6) >

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From: (b)(6)
To: (b)(6) NAVFAC MIDLANT, CI
Cc: (b)(6) (Group III Mgt.) (b)(6) (PM, Group III Management); (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6)
Subject: [Non-DoD Source] RE: CI52 ACCEPTANCE TESTING SCHEDULE (P1383/P1384)
Date: Monday, February 01, 2016 8:38:53

Thanks (b) . We have passed the example you provided to Research Air Flow for their use in modifying the TAB check out lists. I'll have a new list for you, (b)(6) , and (b)(6) consideration today. **clarification: you meant schedule task 20, correct? Thanks. R/(b)

(b)(6) | Deputy Project Manager & Small Business Liaison | |

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-----Original Message-----
From: (b)(6) NAVFAC MIDLANT, CI [mailto(b)(6)

The Schedule Task 22 is the submission of the completed Pre-TAB checklist, after the TAB agency reviews the construction progress to confirm the status of the project, as noted in 23 05 93 Appendix A, section 2 f and section 3.c, along with Appendix C, sequence entitled "Advance Notice of Season 1 TAB Field Work". Attached is an example Pre-DALT checklist from your TAB agency, from a single piece of equipment on another project. The Pre-TAB checklist is similar.

From: (b)(6)
To: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6)
Cc: (b)(6) (Group III Mgt.); (b)(6) PM, Group III Management)
Subject: [Non-DoD Source] RE: SEEKING OICC SIGNATURE ON T-925 REV 2
Date: Monday, February 01, 2016 9:07:41
Attachments: image001.png

It appears that you have capture the issue.

(b)(6), P.E., PMP

Principal, Environmental & Infrastructure Americas, Amec Foster Wheeler

M (b)(6)

(b)(6) amecfw.com

From: (b)(6) [mailto:(b)(6)]
Sent: Friday, January 29, 2016 12:25 PM
To (b)(6) (NAVFAC inbound OICC) (b)(6) (NAVFAC Contract Spec) (b)(6)
(b)(6)
(b)(6)
Cc (b)(6)
(b)(6) Group III Mgt.) (b)(6)
(b)(6) (PM, Group III Management) (b)(6)
Subject: SEEKING OICC SIGNATURE ON T-925 REV 2
Importance: High

Good afternoon (b)(6)

Bottom line up front: I have designer concurrence to transmittal 925 Rev-2 and I seek your concurrence to it.

Background: This submittal is for the HVAC controls for the CLEO. It's been very challenging and the CEMS engineer isn't satisfied my subcontractor is showing the control valve connection for the heat pumps to the DDC system as requested and shown on the stamped and signed drawings. It's not an intentional omission on our part and we weren't able to resolve this through discussion with CEMS (b)(6) and (b)(6) followed the discussion and when it reached a stale-mate recommend approval 'AS-NOTED WITH AN UPDATED ELECTRONIC COPY TO FOLLOW"

Issue: We're providing the heat pump control valve. At the time of this submittal, Johnson Controls was providing

control of the heat pump. Our DDC sub didn't want to put his control on top of the Johnson Control to control the heat pump. CEMS feels this is necessary.

Solution: My sub will add the necessary controls to satisfy the requirement and we will proceed with an updated electronic copy of the transmittal.

(b)(6) – Do you feel I stated this accurately?

Thanks. R/

(b)(6) | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w(b)(6) c(b)(6) Email:(b)(6)
<mailto(b)(6)>

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From: (b)(6)
To: (b)(6) NAVFAC MIDLANT, CI
Cc: (b)(6) (Group III Mgt.) (b)(6) (PM, Group III Management); (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6)
Subject: [Non-DoD Source] RE: CI52 ACCEPTANCE TESTING SCHEDULE (P1383/P1384)
Date: Monday, February 01, 2016 8:38:53

Thanks (b)(6) We have passed the example you provided to Research Air Flow for their use in modifying the TAB check out lists. I'll have a new list for you (b)(6), and (b)(6) consideration today. **clarification: you meant schedule task 20, correct? Thanks. R/(b)

(b)(6) | Deputy Project Manager & Small Business Liaison | |

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-----Original Message-----
From: (b)(6) NAVFAC MIDLANT, CI [mailto(b)(6)

The Schedule Task 22 is the submission of the completed Pre-TAB checklist, after the TAB agency reviews the construction progress to confirm the status of the project, as noted in 23 05 93 Appendix A, section 2 f and section 3.c, along with Appendix C, sequence entitled "Advance Notice of Season 1 TAB Field Work". Attached is an example Pre-DALT checklist from your TAB agency, from a single piece of equipment on another project. The Pre-TAB checklist is similar.

From: (b)(6) NAVFAC MIDLANT, CI
To: (b)(6)
Cc: (b)(6) (Group III Mgt.) (b)(6) (PM, Group III Management) (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
Subject: RE: CI52 ACCEPTANCE TESTING SCHEDULE (P1383/P1384)
Date: Friday, January 29, 2016 13:51:11
Attachments: 2016-01-29a-P-1383 HVAC Acceptance Tasks Schedule Rev00.pdf

---

(b)(6)

Task #15 is actually a review of the design documents by CI52. It is similar to the TAB agency Design Review but encompasses controls and any significant constructability issues. It is typically performed during the design development phase of the project. Looking back through our documentation, I cannot find where it was performed, but believe this was completed. I will remove it from the Tracking Schedule (Marked as "Unknown" since I don't have a specific date).

I am hesitant to provide the Excel file because the worksheet has over 700 rows and over 100 columns, the display of each is controlled by embedded formulas keyed from the entered dates and other settings, some on other Tabs. For this reason, maintenance of the schedule is upon CI52.

The dates shown on the schedule attached were those given to me early last Winter for estimated completion of submittals, etc., and obviously need updates based on the number of "red" overdue dates.

At present, the only "actionable" item is #20, KTR responses to the Site Observation 01 comments issued last July. There were only two comments needing responses. I can resend those comments.

To clarify the tracking process:

Due Dates are populated by either manual entry, calculated from a prerequisite, or offset from a previous task. Testing Start Dates are populated by manual entry only. Manual entry dates are based on input from Dragados or CI52, depending on the responsible party for the task. For example, task #18 field work Start and End Dates was entered by CI52 and the task #19 comment Due Date calculated based on the task #18 End Date, with the offset shown in the Ref/Notes column. Further, task #20 KTR responses Due Date was calculated based on the task #19 Actual Date, prerequisite to task #20 and using the 2 week minimum offset (01 Jul to 15 Jul). For each iteration of Comment->Responses->Close-out/Follow-up (CRC/F cycle), the schedule "adds" rows accordingly (we've not done follow-up on any task yet). When a task is closed out (no further responses, follow-up, or action is required), "Not Required" is entered in the Actual/End Date cell or the CRC/F cycle naturally ends.

Please let me know if you have any other questions. I will update the schedule when I receive the updates mentioned in your previous Meeting email. Thank you.

Respectfully,

(b)

(b)(6) EIT, PMP
Mechanical Acceptance Engineer
(b)(6) / DSN: (b)(6) / CELL (b)(6) / FAX (b)(6)
(b)(6)

-----Original Message-----
From: (b)(6) [mailto(b)(6)]
Sent: Friday, January 29, 2016 11:27 AM
To: (b)(6) NAVFAC MIDLANT, CI; (b)(6) NAVFAC MIDLANT, ROICC

Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
Cc: (b)(6) (Group III Mgt.); (b)(6) (PM, Group III Management); (b)(6)
Subject: [Non-DoD Source] CI52 ACCEPTANCE TESTING SCHEDULE

Good morning (b) Will you please send me the Excel format of the C152 acceptance test schedule? This will make tracking and coordination easier and I will track versions by including a date in the file name.

Also, I have a question about row #15 on this schedule. What is this?

Thanks. R/ (b)

(b)(6) | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w (b)(6) | c (b)(6) | Email: (b)(6)
<mailto (b)(6) >

Dragados USA, Inc. is An Equal Opportunity Employer

VER 19.04	HVAC ACCEPTANCE TASKS SCHEDULE - P-1383/1384; New Base Entry Road							TYPE: DBB	CURRENT AS OF: 29 Jan 2016; 1330 Hrs
TASK		PERSONS		DATES				TASK	REFERENCES / NOTES
NUMBER	DESCRIPTION	BEGIN	END	SUBMITTALS		TESTING / MEETINGS		PREREQUISITES	
				DUE	ACTUAL	START	END		
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)
01	Pre-DALT / TAB meeting	CI52, CM, IPT, GC, CC, & TAB		-	-			-	Specification 23 05 93 page 5, section 3.2.
02	TAB agency and TAB personnel qualifications submittal number 01 submitted for review	TAB	CI52		23 Jun 14	-	-	-	Specification 23 05 93 page 4, section 1.5.1.
03	TAB agency and TAB personnel qualifications submittal number 01 review comments	CI52	TAB	07 Jul 14	30 Jul 14	-	-	02	2 week minimum turn around.
04	TAB agency and TAB personnel qualifications submittal number 01 review comments responses 01	TAB	CI52	13 Aug 14	Not Required	-	-	03	
05	TAB pre-field engineering report submittal number 01 submitted for review	TAB	CI52		23 Jun 14	-	-	-	Specification 23 05 93 page 12, Appendix B, section 2.d.
06	TAB pre-field engineering report submittal number 01 review comments	CI52	TAB	07 Jul 14	30 Jul 14	-	-	05	2 week minimum turn around.
07	TAB pre-field engineering report submittal number 01 review comments responses 01	TAB	CI52	13 Aug 14	Not Required	-	-	06	
08	Ductwork air leakage test (DALT) and TAB procedures summary submittal number 01 submitted for review	TAB	CI52		23 Jun 14	-	-	-	Specification 23 05 93 page 12, Appendix B, section 2
09	TAB procedures summary submittal number 01 review comments	CI52	TAB	07 Jul 14	30 Jul 14	-	-	08	2 week minimum turn around.
10	TAB procedures summary submittal number 01 review comments responses 01	TAB	CI52	13 Aug 14	Not Required	-	-	09	
11 (Overdue)	TAB field work execution schedule submittal number 01 submitted for review	TAB	CI52	30 Mar 15		-	-	-	Specification 23 05 93 page 5, section 1.6 and page 12, Appendix B, section 1.
12	TAB design review report submittal number 01 submitted for review	TAB	CI52		10 Dec 14	-	-	-	Specification 23 05 93 page 9, Appendix A, section 2.3 and page 13, Appendix B, section 3.
13	TAB design review report submittal number 01 review comments	CI52	TAB	24 Dec 14	18 Dec 14	-	-	12	2 week minimum turn around.
14	TAB design review report submittal number 01 review comments responses 01	TAB	CI52	01 Jan 15	Not Required	-	-	13	
15	Contract document submittal number 01 submitted for review	DOR	CI52	30 Mar 15	Unknown	-	-	-	Includes current basis of design, specifications, and drawings.
16	Facility dry-out	GC		-	-			-	
17 (Overdue)	Performance verification test (PVT) plan submittal number 01 submitted for review	CC	CI52	30 Mar 15		-	-	-	Specification 23 09 23.13 20 page 36, section 3.5.2.
18	Site observation number 01 field work	CI52		-	-	24 Jun 15	24 Jun 15	-	
19	Site observation number 01 comments	CI52	GC	08 Jul 15	01 Jul 15	-	-	18	2 week minimum turn around.
20 (Overdue)	Site observation number 01 comments responses 01	GC	CI52	15 Jul 15		-	-	19	
21	Equipment Start-Up	GC		-	-			-	

VER 19.04	HVAC ACCEPTANCE TASKS SCHEDULE - P-1383/1384; New Base Entry Road							TYPE: DBB	CURRENT AS OF: 29 Jan 2016; 1330 Hrs
TASK		PERSONS		DATES				TASK	REFERENCES / NOTES
NUMBER	DESCRIPTION	BEGIN	END	SUBMITTALS		TESTING / MEETINGS		PREREQUISITES	
				DUE	ACTUAL	START	END		
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)
22 (Overdue)	TAB prerequisite HVAC work checkout list submitted for review	TAB	CI52	30 Mar 15		-	-	21	Specification 23 05 93 page 9, Appendix A, section 1.f and page 12, Appendix B, section 2.f.
23 (Overdue)	Completed pre-performance verification test (PVT) checklist submittal number 01 submitted for review	CC	CI52	30 Mar 15		-	-	-	Specification 23 09 23.13 20 page 36, section 3.5.4.
24 (Overdue)	Graphic control loop stability trend logs submittal number 01 submitted for review	CC	CI52	30 Mar 15		-	-	-	Specification 23 09 23.13 20 page 40, section 3.5.10.
25	TAB field work number 01	TAB		-	-	**Date Needed**		-	
26	TAB report submittal number 01 submitted for DOR review	TAB	DOR			-	-	25	Specification 23 05 93 page 13, Appendix B, section 4.
27	TAB report submittal number 01 and DOR comments submitted for review	DOR	CI52			-	-	26	Specification 23 05 93 page 13, Appendix B, section 4.
28	Functional performance test (FPT) field work in presence of CxA (Not in presence of CI52)	CxA, CC, And TAB		-	-	**Date Needed**			Specification 23 08 00.00 10 page 6, section 3.2.2.
29	FPT results submittal number 01 submitted to determine systems' readiness for PVT	CxA	CI52			-	-	28	
30	PVT field work number 01 in presence of CI52 (Government Acceptance Testing) (Not in presence of CxA)	CI52 And CC		-	-	**Date Needed**		1, 15, 17, 20, 23, 24, 27, And 29	Specification 23 09 23.13 20 page 36, section 3.5.3. Hours estimated for this task: 8.
31	PVT report submittal number 01 submitted for review	CC	CI52			-	-	30	Specification 23 09 23.13 20 page 40, section 3.5.11.
32	PVT report submitted for incorporation into Cx report	CC	CxA			-	-	31	Specification 23 08 00.00 10 page 6, section 3.3.
33	Final control system settings CD submitted	CC	CM			-	-	31	Specification 23 09 23.13 22 page 34, section 3.4.
34	TAB verification for season 01 field work number 01 in presence of CI52 (Government Acceptance Testing) (Not in presence of CxA)	CI52, CC, And TAB		-	-			30	Specification 23 05 93 page 7, section 3.3.9.1. Hours estimated for this task: 8.
35	TAB verification for season 01 report submitted for incorporation into Cx report	TAB	CxA			-	-	34	Specification 23 08 00.00 10 page 6, section 3.3.
36	Facility acceptance recommendation 01	CI52	CM			-	-	30 And 34	
37	Beneficial occupancy date (BOD)	CM		**Date Needed**		-	-	36	BOD occurs after resolution of critical PVT, TAB, and site observation issues identified in facility acceptance recommendation.
38	TAB season of maximum heating load field work report 01 submittal submitted for review	TAB	CI52	**Date Needed**		-	-	-	Specification 23 05 93 page 7, section 3.3.5.2.
39	TAB season of maximum cooling load field work report 01 submittal submitted for review	TAB	CI52	**Date Needed**		-	-	-	Specification 23 05 93 page 7, section 3.3.5.2.

VER 19.04	HVAC ACCEPTANCE TASKS SCHEDULE - P-1383/1384; New Base Entry Road							TYPE: DBB	CURRENT AS OF: 29 Jan 2016; 1330 Hrs
TASK		PERSONS		DATES				TASK	REFERENCES / NOTES
NUMBER	DESCRIPTION	BEGIN	END	SUBMITTALS		TESTING / MEETINGS		PREREQUISITES	
				DUE	ACTUAL	START	END		
(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)
40	TAB verification for season 02 field work number 01 in presence of CI52 (Government Acceptance Testing) (Not in presence of CxA)	CI52, CC, And TAB		-	-			37	Specification 23 05 93 page 7, section 3.3.9.1. Hours estimated for this task: 8.
41	Outstanding issues resolution notification	CI52	CM			-	-	31, 34, 38, 39, And 40	

PERSONS LEGEND:

CC	Controls Contractor	DOR	Designer of Record
CI52	Naval Facilities Command - Mid-Atlantic Acceptance Group	GC	General Contractor
CM	Naval Facilities Command - Mid-Atlantic Construction Manager	IPT	Integrated Production Team
CxA	Commissioning Authority	TAB	Test and Balance Contractor

From: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
To: (b)(6)
Cc: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6)
Subject: RE: Davs Bacon Investigation - Lee Mechanical Incorporated
Date: Monday, January 25, 2016 16:53:00

He sent us that letter in December, and we responded on December 29. Already ahead of you!

R/
(b)(6)

(b)(6)
Contract Specialist
ROICC Camp Lejeune
(b)(6)

-----Original Message-----
From: (b)(6) [mailto:(b)(6)]
Sent: Monday, January 25, 2016 4:46 PM
To: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
Cc: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6)
(b)(6)
Subject: [Non-DoD Source] FW: Davs Bacon Investigation - Lee Mechanical Incorporated
Importance: High

Good afternoon (b)(6) The bottom email is from a Department of Labor (DoL) Wage Hour Determination Investigator (b)(6)). An employee of a second-tier subcontractor on our project is accusing his employer of improper wage determination.

Attached is a copy of a sample letter that will be sent to each contracting officer for each of the four Davis Bacon contracts that you have identified that your company has worked on in the last two years. We must have all of this information, especially the Contract Date(s) information and the Wage Determination(s), before any work can be done on the spreadsheets that you filled out and e-mailed to your office. The Prime contractors normally provide the Point of Contact (POC) for the Contracting Officers, however, if you have a (POC) for each contracting officer for each of the four contracts that I can contact, that would help move the investigative process along a litter faster. Please feel free to contact me if you should have any other questions.

I'm not sure of the professional relationship between DoD and DoL but you can read for yourself that his intent is for the Contracting officer to respond. Will you respond to this investigator with the information he is requesting? Thanks. R/ (b)

(b)(6) | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w(b)(6) | c(b)(6) | Email:(b)(6)
<mailto(b)(6)>

Dragados USA, Inc. is An Equal Opportunity Employer

From:(b)(6) [mailto(b)(6)]
Sent: Monday, January 25, 2016 3:46 PM
To:(b)(6)
Cc:(b)(6)
Subject: Fw: Davs Bacon Investigation - Lee Mechanical Incorporated
Importance: High

(b),

As per our conversation, please see the attached and/or forward to the appropriate person or persons to complete the attached. Please have them email this to(b)(6) and(b)(6) for their use. Thank you for assisting me with this matter, it is greatly appreciated.

Thank you,

(b)(6)

Group III Mgt., Inc.
2820 W. Vernon Ave.
Kinston, NC 28504
(b)(6)

From(b)(6) <mailto(b)(6)

Sent: Monday, January 25, 2016 2:50 PM

To:(b)(6) <mailto(b)(6)

Cc(b)(6) - WHD' <mailto(b)(6)

Subject: FW: Davs Bacon Investigation - Lee Mechanical Incorporated

Attached is the request for information letter

Please forward to the appropriate party that can provide this information as soon as possible.

If this investigator can not get this information in a timely manner, he can make all of us contractors very miserable.

I only want to conclude this investigation as soon as possible for my company.

I am sure you would like this also.

Thanks

(b)(6)

(b)(6)

Vice President

Lee Mechanical, Incorporated

Post Office Box 637

1436 Highway 258 North (28504)

Kinston, North Carolina 28502-0637

Ph. (b)(6)

Fax (b)(6)

Cell (b)(6)

E-Mail: (b)(6) <mailto(b)(6)

From (b)(6) - WHD [mailto(b)(6)]
Sent: Tuesday, January 19, 2016 9:30 AM
To: (b)(6)

Subject: RE: Davs Bacon Investigation - Lee Mechanical Incorporated

(b)(6)

Attached is a copy of a sample letter that will be sent to each contracting officer for each of the four Davis Bacon contracts that you have identified that your company has worked on in the last two years. We must have all of this information, especially the Contract Date(s) information and the Wage Determination(s), before any work can be done on the spreadsheets that you filled out and e-mailed to your office. The Prime contractors normally provide the Point of Contact (POC) for the Contracting Officers, however, if you have a (POC) for each contracting officer for each of the four contracts that I can contact, that would help move the investigative process along a litter faster. Please feel free to contact me if you should have any other questions.

Kind regards,

(b)(6), Wage Hour Investigator

(b)(6) Voice

(b)(6) Fax

From: (b)(6)
To: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
Cc: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6)
Subject: [Non-DoD Source] FW: Davs Bacon Investigation - Lee Mechanical Incorporated
Date: Monday, January 25, 2016 16:46:47
Attachments: image001.png
DBRA CO Letter - Lee Mechanical.doc
Importance: High

Good afternoon (b)(6). The bottom email is from a Department of Labor (DoL) Wage Hour Determination Investigator (b)(6)). An employee of a second-tier subcontractor on our project is accusing his employer of improper wage determination.

Attached is a copy of a sample letter that will be sent to each contracting officer for each of the four Davis Bacon contracts that you have identified that your company has worked on in the last two years. We must have all of this information, especially the Contract Date(s) information and the Wage Determination(s), before any work can be done on the spreadsheets that you filled out and e-mailed to your office. The Prime contractors normally provide the Point of Contact (POC) for the Contracting Officers, however, if you have a (POC) for each contracting officer for each of the four contracts that I can contact, that would help move the investigative process along a litter faster. Please feel free to contact me if you should have any other questions.

I'm not sure of the professional relationship between DoD and DoL but you can read for yourself that his intent is for the Contracting officer to respond. Will you respond to this investigator with the information he is requesting? Thanks. R/ (b)

(b)(6) | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w (b)(6) c (b)(6) | Email: (b)(6)
<mailto (b)(6) >

Dragados USA, Inc. is An Equal Opportunity Employer

From (b)(6) [mailto:(b)(6)]
Sent: Monday, January 25, 2016 3:46 PM
To (b)(6)
Cc: (b)(6)
Subject: Fw: Davs Bacon Investigation - Lee Mechanical Incorporated
Importance: High

(b)(6)

As per our conversation, please see the attached and/or forward to the appropriate person or persons to complete the attached. Please have them email this to (b)(6) and (b)(6) for their use. Thank you for assisting me with this matter, it is greatly appreciated.

Thank you,

(b)(6)

Group III Mgt., Inc.
2820 W. Vernon Ave.
Kinston, NC 28504
Ph: (b)(6)
Fax: (b)(6)

From: (b)(6) <mailto(b)(6)>

Sent: Monday, January 25, 2016 2:50 PM

To: (b)(6) ' <mailto(b)(6)>

Cc: (b)(6) - WHD' <mailto (b)(6)>

Subject: FW: Davs Bacon Investigation - Lee Mechanical Incorporated

Attached is the request for information letter

Please forward to the appropriate party that can provide this information as soon as possible.

If this investigator can not get this information in a timely manner, he can make all of us contractors very miserable.

I only want to conclude this investigation as soon as possible for my company.

I am sure you would like this also.

Thanks

(b)(6)

(b)(6)

Vice President

Lee Mechanical, Incorporated

Post Office Box 637

1436 Highway 258 North (28504)

Kinston, North Carolina 28502-0637

Ph. No. (b)(6)

Fax No. (b)(6)

Cell No. (b)(6)

E-Mail: (b)(6) <mailto(b)(6)>

From: (b)(6) - WHD [mailto(b)(6)
Sent: Tuesday, January 19, 2016 9:30 AM
To (b)(6)
Subject: RE: Davs Bacon Investigation - Lee Mechanical Incorporated

(b)(6)

Attached is a copy of a sample letter that will be sent to each contracting officer for each of the four Davis Bacon contracts that you have identified that your company has worked on in the last two years. We must have all of this information, especially the Contract Date(s) information and the Wage Determination(s), before any work can be done on the spreadsheets that you filled out and e-mailed to your office. The Prime contractors normally provide the Point of Contact (POC) for the Contracting Officers, however, if you have a (POC) for each contracting officer for each of the four contracts that I can contact, that would help move the investigative process along a litter faster. Please feel free to contact me if you should have any other questions.

Kind regards,

(b)(6), Wage Hour Investigator

(b)(6) Voice

(b)(6) Fax

U.S. Department of Labor

Wage Hour Division
Federal Court House
2 Princess Street, Rm 327
Wilmington, NC. 28401
(910) 445-3782 Voice
(919) 900-2498 Fax

January 19, 2016

Dear Contracting Officer

Could you please provide the following information concerning a Davis Bacon investigation that our office is conducting of Lee Mechanical, Inc. who was a sub contractor for various Prime contractors during the two year investigative period of 11/24/13 to 11/22/15. Please provide the following information for each contract.

- Name of Federal funding statute(s)
- Contract number, amount and brief description of contract work.
- Name of Federal contracting agency financing the project and its local representative, and the name of the State or local contracting authority and name of its representative (and the name of the owner / grantee, where appropriate)
- Date contract was advertised for bids
- Date contract was awarded
- Starting and completion date of contract and amount remaining on contract.
- Information as to whether the contract contained the contract provision in Reg. 5.5 for DBRA/CWHSSA. Please provide PDF copies of the portion of the contract containing these provisions.
- Applicable Wage Determination(s) and modifications
- Legal name and address of the prime contractor, including the name and title of the responsible official, plus identifying information regarding any other ongoing contracts held by the same prime contractor.

If you should have any questions, please feel free to call my office.

Kind regards,

(b)(6) [redacted] Wage Hour Investigator

From: (b)(6)
To: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) (b)(6) MCIEAST, I&E\IDD; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
Cc: (b)(6) (Yates Electric) (b)(6) (PM, Group III Management) (b)(6) (Group III Superintendent); (b)(6)
Subject: [Non-DoD Source] RE: WILSON GATE ELECTRICAL - AVB HEAT TRACE
Date: Tuesday, January 19, 2016 9:32:35
Attachments: image001.png

Thanks (b) I'm meeting with NAVFAC later today to look at this. I will share your email with them. R/ (b)

(b)(6) | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w (b)(6) | c (b)(6) | Email: (b)(6)
<mailto (b)(6) >

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From: (b)(6) [mailto (b)(6)]
Sent: Tuesday, January 19, 2016 9:17 AM
To: (b)(6) (NAVFAC inbound OICC); (b)(6) (b)(6) (b)(6) (NAVFAC Contract Spec); (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6)
Cc: (b)(6) (Yates Electric); (b)(6) (PM, Group III Management); (b) (b)(6) (Group III Superintendent); (b)(6)
Subject: RE: WILSON GATE ELECTRICAL - AVB HEAT TRACE

Please connect to panel L1. At the time of the design, the manufacturer of the AVB and heat trace was not known and the 480V connection was based on another manufacturer.

(b)(6), P.E.

Vice President, Principal Electrical Engineer

(b)(6) <mailto(b)(6) >

P:(b)(6)

CEMS Engineering | Architecture

www.CEMSengineering.com <http://www.cemsengineering.com/>

cid:image001.jpg@01CF7429.0D4A2D80

From (b)(6) [mailto(b)(6)]
Sent: Wednesday, January 13, 2016 12:46 PM
To (b)(6) (NAVFAC inbound OICC)(b)(6)
(b)(6)
(b)(6)
(b)(6) MCI East)
(b)(6) (NAVFAC Contract Spec)(b)(6)
(b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune(b)(6)
Cc: (b)(6) (Yates
Electric)(b)(6) (PM, Group III Management)(b)(6)
(b)(6) (Group III Superintendent)(b)(6) >
Subject: WILSON GATE ELECTRICAL - AVB HEAT TRACE

Good afternoon. Please see the attachment. EP601 indicates that the AVB heat trace is to enter the MDP panel which is 277/480 voltage. The attached photos show the AVB heat trace data plate which calls for 120 volt.

Q: Do you want the AVB heat trace (120 volt) connected to the MDP panel (277 volt)? My electrical subcontractor recommends connecting in adjacent panel L1 which has spares in it (see again EP601). Cost, if any, is minimal.

Thanks. R(b)(6)

(b)(6) | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w(b)(6) | c(b)(6) | Email:(b)(6)
<mailto(b)(6) >

Dragados USA, Inc. is An Equal Opportunity Employer

From: (b)(6)
To: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6) (b)(6) MIDLANT, ROICC Camp Lejeune
Cc: (b)(6) (Yates Electric) (b)(6) (PM, Group III Management); (b)(6) (Group III Superintendent) (b)(6)
Subject: [Non-DoD Source] RE: WILSON GATE ELECTRICAL - AVB HEAT TRACE
Date: Tuesday, January 19, 2016 9:16:58
Attachments: image003.png

Please connect to panel L1. At the time of the design, the manufacturer of the AVB and heat trace was not known and the 480V connection was based on another manufacturer.

(b)(6), P.E.

Vice President, Principal Electrical Engineer

(b)(6) <mailto (b)(6) >

P: (b)(6)

CEMS Engineering | Architecture

www.CEMSengineering.com <http://www.cemsengineering.com/>

cid:image001.jpg@01CF7429.0D4A2D80

From: (b)(6) [mailto:(b)(6)]
Sent: Wednesday, January 13, 2016 12:46 PM
To: (b)(6) (NAVFAC inbound OICC)(b)(6)
(b)(6)
(b)(6) (AMEC PM)(b)(6)
(b)(6)
(b)(6) (MCI East)
(b)(6) (NAVFAC Contract Spec) (b)(6)
(b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune (b)(6)
Cc: (b)(6)
Electric)(b)(6) (PM, Group III Management) (b)(6)
(b)(6) (Group III Superintendent)(b)(6)
Subject: WILSON GATE ELECTRICAL - AVB HEAT TRACE

Good afternoon. Please see the attachment. EP601 indicates that the AVB heat trace is to enter the MDP panel which is 277/480 voltage. The attached photos show the AVB heat trace data plate which calls for 120 volt.

Q: Do you want the AVB heat trace (120 volt) connected to the MDP panel (277 volt)? My electrical subcontractor

recommends connecting in adjacent panel L1 which has spares in it (see again EP601). Cost, if any, is minimal.

Thanks. R[redacted]

[redacted] | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w[redacted] | c[redacted] | Email:[redacted]
<[redacted]

Dragados USA, Inc. is An Equal Opportunity Employer

From: (b)(6)
To: (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) (AMEC PM); (b)(6) (b)(6) MCIEAST, I&E\IDD; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune; (b)(6) NAVFAC MIDLANT, ROICC Camp Lejeune
Cc: (b)(6) (Yates Electric); (b)(6) (PM, Group III Management); (b)(6) (Group III Superintendent)
Subject: [Non-DoD Source] WILSON GATE ELECTRICAL - AVB HEAT TRACE
Date: Wednesday, January 13, 2016 12:46:40
Attachments: image001.png
WILSON GATE AVB ELECTRICAL.pdf

Good afternoon. Please see the attachment. EP601 indicates that the AVB heat trace is to enter the MDP panel which is 277/480 voltage. The attached photos show the AVB heat trace data plate which calls for 120 volt.

Q: Do you want the AVB heat trace (120 volt) connected to the MDP panel (277 volt)? My electrical subcontractor recommends connecting in adjacent panel L1 which has spares in it (see again EP601). Cost, if any, is minimal.

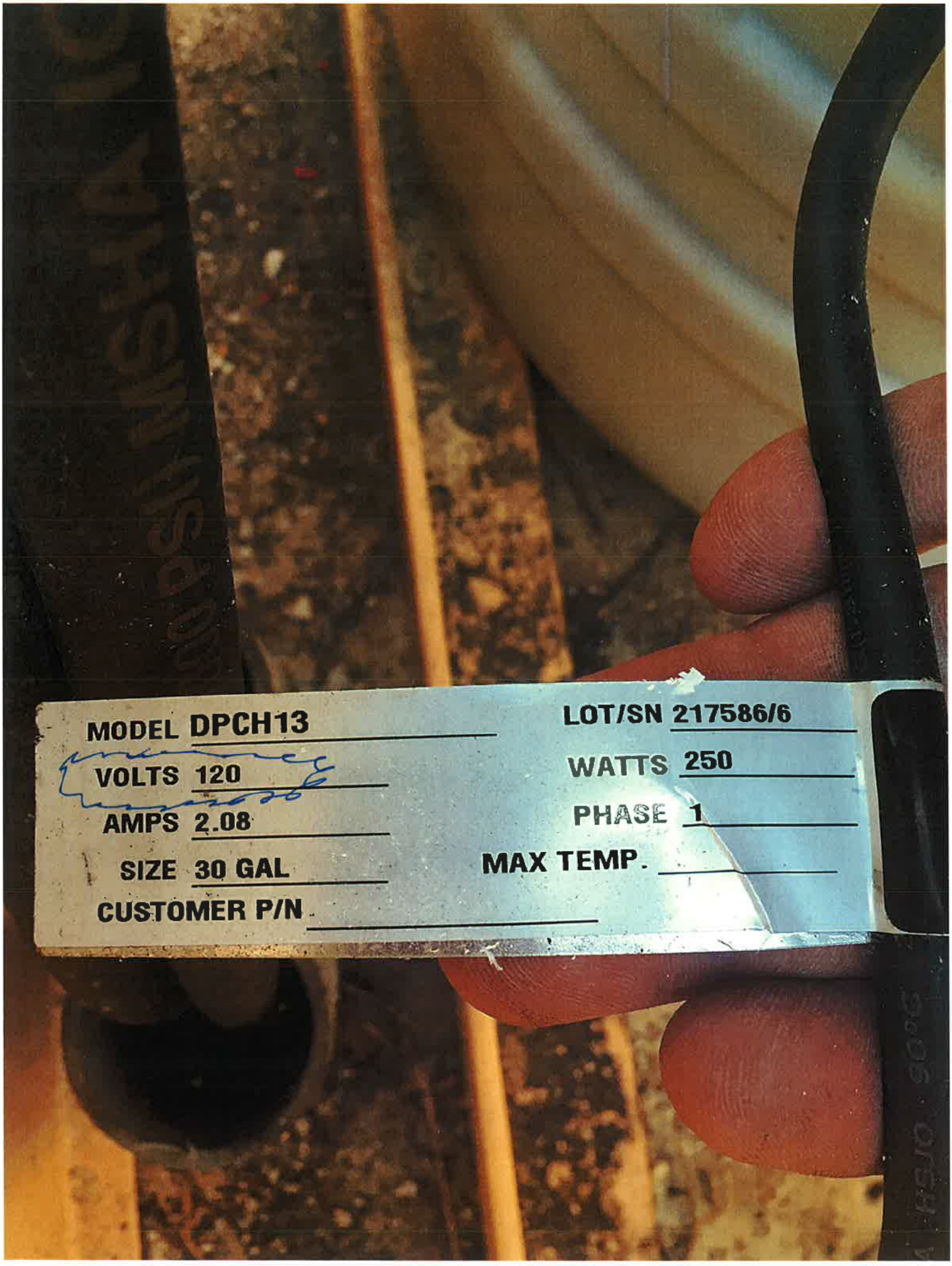
Thanks. R(b)(6)

(b)(6) | Deputy Project Manager & Small Business Liaison | cid:image001.png@01CCA871.8C8E7960 |

311 Parachute Tower Road | Camp Lejeune, NC 28542 |

Phone: w(b)(6) | c(b)(6) | Email: (b)(6)
<mailto(b)(6)>

Dragados USA, Inc. is An Equal Opportunity Employer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LOT/SN 217586/6
VOLTS 120
WATTS 250
AMPS 2.08
PHASE 1
SIZE 30 GAL
MAX TEMP.
CUSTOMER P/N

PANEL NO. A

VOLTAGE 120/208 PHASE 3 WIRE 4 LUG SIZE 400A MAIN CB. 200A

	CKT. NO.	BRKR. SIZE	LOAD	VA		CKT. NO.	BRKR. SIZE	LOAD	VA	
	1	20	RECPT-101,106,109,117-119	1440	A	2	20	LGT-EXTERIOR	224	T
	3	20	RECPT-102,103,111,114	1260	B	4	20	LGT-106-109,112-118	1294	
	5	20	RECPT-112	900	C	6	20	LGT-102-104	1593	T
	7	20	RECPT-107,108	360	A	8	20	LGT-NIGHTLIGHTS	321	
	9	20	RECPT-114,116	720	B	10	20	LGT-WALKWAY	383	T
	11	20	RECPT-117,118	360	C	12	20	MICROWAVE	1500	
	13	20	COPIER	600	A	14	20	P-1	2290	
	15	20	REFRIGERATOR	1200	B	16				
	17	20	EWC, RM 103	900	C	18	20	P-2	1580	
	19	20	RECPT-VENDING	1200	A	20				
	21	20	RECPT-VENDING	1200	B	22	20	CU-1	1260	
	23	60	HP-1	5825	C	24	35	UPS	5220	
	25				A	26				
	27	35	HP-2	2950	B	28				
	29				C	30	50	IWH-2 (CKT 1)	8400	L
L	31	35	IWH-1	7125	A	32				
	33				B	34	50	IWH-2 (CKT 2)	8400	L
	35	20	UH	2000	C	36				
	37				A	38				
	39	20	COFFEE POT	1500	B	40	100	PANEL B		
L,R	41	20	FACP/MNS PANEL	600	C	42				

INTERRUPTING AMPERE CURRENT RATING FOR THIS ASSEMBLY SHALL BE 10,000 A. RMS SYM.

TOTAL CONNECTED 62,605 VA
TOTAL DEMAND 62,605 VA 174 AMPS

'T' – CIRCUITS FED VIA TIMECLOCK.
'L' – PROVIDE LOCKABLE CIRCUIT BREAKER.
'R' – PROVIDE CIRCUIT BREAKER WITH RED HANDLE.

PANEL NO. B

VOLTAGE 120/208 PHASE 3 WIRE 4 LUG SIZE 225A MAIN CB. 100A

CKT. NO.	BRKR. SIZE	LOAD	VA		CKT. NO.	BRKR. SIZE	LOAD	VA
1	20	SPARE		A	2	15	SOLAR ARRAY 1	
3	20	SPARE		B	4			
5	20	SPARE		C	6			
7	20	SPARE		A	8	15	SOLAR ARRAY 2	
9				B	10			
11				C	12			
13				A	14	15	SOLAR ARRAY 3	
15				B	16			
17				C	18			
19				A	20	15	SOLAR ARRAY 4	
21				B	22			
23				C	24			
25				A	26	15	SOLAR ARRAY 5	
27				B	28			
29				C	30			
31				A	32	15	SOLAR ARRAY 6	
33				B	34			
35				C	36			
37				A	38			
39				B	40			
41				C	42			

INTERRUPTING AMPERE CURRENT RATING FOR THIS ASSEMBLY SHALL BE 10,000 A. RMS SYM.

TOTAL CONNECTED — VA
TOTAL DEMAND — VA — AMPS

PANEL NO. UPS1

VOLTAGE 120/208 PHASE 3 WIRE 4 LUG SIZE 100A MAIN CB. 80A

CKT. NO.	BRKR. SIZE	LOAD	VA		CKT. NO.	BRKR. SIZE	LOAD	VA
1	20	OVER SPEED DETECTOR	1200	A	2	20	CCTV CAMERAS	490
3	20	WRONG WAY DETECTOR	1200	B	4	20	CCTV LICENSE TAG CAMERAS	490
5	20	AVB CTRL PANEL-GATEHOUSE	600	C	6	20	COMPUTER-GUARD BOOTH 1	800
7	20	CCTV DVR-GATEHOUSE	600	A	8	20	COMPUTER-GUARD BOOTH 2	800
9	20	CCTV MONITOR-GATEHOUSE	500	B	10	20	COMPUTER-GUARD BOOTH 3	800
11	20	CCTV MULTIPLEXER-GATEHOUSE	600	C	12	20	COMPUTER-GUARD BOOTH 4	800
13	20	CCTV SWITCH-GATEHOUSE	600	A	14	20	COMPUTER-GUARD BOOTH 5	800
15	20	COMPUTER-GATEHOUSE	800	B	16	30	RADIOLOGICAL SENSORS	1500
17	20	COMPUTER-GATEHOUSE	800	C	18	20	COMPUTER-GUARD BOOTH 6	800
19	20	GATEHOUSE ESS PANEL	600	A	20	20	SPARE	
21	20	GATEHOUSE SPEED CP	600	B	22	20	SPARE	
23	20	GATEHOUSE WRONG WAY CP	600	C	24	20	SPARE	
25	20	RCPT-GATEHOUSE	600	A	26			
27	20	RCPT-GATEHOUSE	600	B	28			
29	20	RCPT-GATEHOUSE	600	C	30			
31	20	RCPT-TBB	360	A	32			
33	20	RCPT-TBB	360	B	34			
35				C	36			
37				A	38			
39				B	40			
41				C	42			

INTERRUPTING AMPERE CURRENT RATING FOR THIS ASSEMBLY SHALL BE 10,000 A. RMS SYM.

TOTAL CONNECTED 17,700 VA
TOTAL DEMAND 17,700 VA 49 AMPS

PANEL NO. MDP

VOLTAGE 277/480 PHASE 3 WIRE 4 LUG SIZE 400A MAIN CB. MLO

CKT. NO.	BRKR. SIZE	LOAD	VA		CKT. NO.	BRKR. SIZE	LOAD	VA
1				A	2			
3	100	PANEL H1	37240	B	4	30	INBOUND AVB CONTROLLER	18000
5				C	6			
7				A	8			
9	125	PANEL L1	66980	B	10	30	OUTBOUND AVB CONTROLLER	18000
11				C	12			
13				A	14			
15				B	16	20	AVB HEAT TRACE	5000
17				C	18			
19				A	20			
21				B	22	20	AVB HEAT TRACE	5000
23				C	24			
25				A	26			
27				B	28			
29				C	30			
31				A	32			
33				B	34			
35				C	36			
37				A	38			
39				B	40	30	TVSS	
41				C	42			

INTERRUPTING AMPERE CURRENT RATING FOR THIS ASSEMBLY SHALL BE 18,000 A. RMS SYM.

TOTAL CONNECTED 150,220 VA
TOTAL DEMAND 150,220 VA 181 AMPS

PANEL NO. L1

VOLTAGE 120/208 PHASE 3 WIRE 4 LUG SIZE 400A MAIN CB. 300A

CKT. NO.	BRKR. SIZE	LOAD	VA		CKT. NO.	BRKR. SIZE	LOAD	VA
1	60	PANEL GB1	5160	A	2	20	RCPTS-RM 122	900
3				B	4	20	RCPTS-RM 123, 124	900
5	60	PANEL GB2	5160	C	6	20	RCPTS-RM 121	720
7				A	8	20	RCPTS-RM 120	360
9	60	PANEL GB3	5160	B	10	20	LGTS-INTERIOR	680
11				C	12	20	LGTS-EXTERIOR	180
13	60	PANEL GB4	5160	A	14	30	OVERWATCH POSITION	1500
15				B	16	20	SPARE	
17	60	PANEL GB5	5160	C	18	20	SPARE	
19				A	20	20	SPARE	
21	60	PANEL GB6	5160	B	22	20	SPARE	
23				C	24	20	SPARE	
25	20	HP-3	1625	A	26	20	CU-2	1975
27				B	28			
L 29	25	IWH-3	3600	C	30			
31				A	32	80	UPS	20000
33	20	P-3	1580	B	34			
35				C	36			
37	20	UH	2000	A	38	80	UPS BYPASS	
39				B	40			
41				C	42			

INTERRUPTING AMPERE CURRENT RATING FOR THIS ASSEMBLY SHALL BE 10,000 A. RMS SYM.

TOTAL CONNECTED 66,980 VA
TOTAL DEMAND 66,980 VA 186 AMPS

'L' – PROVIDE LOCKABLE CIRCUIT BREAKER

PANEL NO. H1

VOLTAGE 277/480 PHASE 3 WIRE 4 LUG SIZE 100A MAIN CB. MLO

CKT. NO.	BRKR. SIZE	LOAD	VA		CKT. NO.	BRKR. SIZE	LOAD	VA
1	20	SITE LIGHTING	1280	A	2	20	SITE LIGHTING	1280
3	20	SITE LIGHTING	1600	B	4	20	SITE LIGHTING	960
5	20	SITE LIGHTING	2560	C	6	20	SPARE	
7	20	SITE LIGHTING	1600	A	8	20	SITE LIGHTING	2240
9	20	SITE LIGHTING	1280	B	10	20	SITE LIGHTING	1280
11	20	SITE LIGHTING	1600	C	12	20	SITE LIGHTING	1280
13	20	SITE LIGHTING	1920	A	14	20	SITE LIGHTING	1280
15	20	SITE LIGHTING	1600	B	16	20	CANOPY LIGHTING	660
17	20	SITE LIGHTING	1600	C	18	20	CANOPY LIGHTING	1980
19	20	SITE LIGHTING	1280	A	20	20	CANOPY LIGHTING	1320
21	20	SITE LIGHTING	1280	B	22	20	SPARE	
23	20	SITE LIGHTING	1600	C	24	20	SPARE	
25	20	SITE LIGHTING	1920	A	26	20	SPARE	
27	20	SITE LIGHTING	2240	B	28	20	SPARE	
29	20	SITE LIGHTING	1600	C	30	20	SPARE	
31				A	32			
33				B	34			
35				C	36			
37				A	38			
39				B	40			
41				C	42			

INTERRUPTING AMPERE CURRENT RATING FOR THIS ASSEMBLY SHALL BE 18,000 A. RMS SYM.

TOTAL CONNECTED 37,240 VA
TOTAL DEMAND 37,240 VA 45 AMPS

NAVFAC

(b)(6)

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FOR COMMANDER NAVFAC
ACTING
DATE/REVISION TO DATE
DES RSP DRW CRC CHK RSP
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
DEPUTY PM/DM

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC
NAVAL STATION - NORFOLK, VA
NCBC PT
MARINE CORPS BASE, CAMP LEJEUNE
JACKSONVILLE, NC
FY12 MCON P1383 (BASE BID)
NEW BASE ENTRY POINT
PANEL SCHEDULES

SCALE: AS NOTED
EFD/PROJECT NO.: P1383
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12593123
SHEET 512 OF 1049
EP601